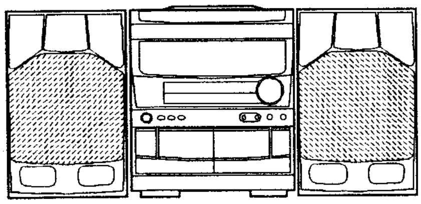
aiwa

aiwa
SERVICE

CX-NV800
CX-NV820
CX-NAP1MK3



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM–3MK2 PR4N
- BASIC CD MECHANISM : 4ZG–1 ADNM
- TYPE: 800:V
820,NAP1MK3:EZ

SERVICE MANUAL

CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
CX–NV800 (TYPE: V)	SX–FNV800	RC–T501
CX–NV820 (TYPE: EZ)		
CX–NAP1MK3 (TYPE: EZ)		

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No.09-965-128-10T

2026

S/M Code No. 09–968–147–3FE

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SPECIFICATIONS

<FM Tuner section>

Tuning range	EZ : 87.5 MHz to 108 MHz V : FM1 (OIRT) 65 MHz to 74 MHz (10kHz step) FM (CCIR) 87.5 MHz to 108 MHz (50 kHz step)
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM (MW) Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<LW Tuner section> <EZ, V only>

Tuning range	144 kHz ~ 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output *	50 W + 50 W EZ : (6 ohms, T.H.D. 1%, 1 kHz/DIN 45500) V : (6 ohms, T.H.D. 1%, 1 kHz) Reference : 70 W + 70 W EZ : (6 ohms, T.H.D. 10%, 1 kHz/DIN 45324) V : (6 ohms, T.H.D. 10%, 1 kHz) DIN MUSIC POWER : 100 W +100 W (EZ only)
	* (without connecting to the SURROUND SPEAKERS)
Total harmonic distortion	0.1% (25 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 820EZ : 150 mV (adjustable) NAP1MK3EZ : 230 mV (adjustable) V : 250 mV (adjustable) MIC 1, MIC 2 : 820EZ, V : 1 mV (10 kohms) NAP1MK3EZ : 1.7 mV (10 kohms)
Outputs	SUPER WOOFER : 1.7 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape : 50 Hz – 16000 Hz Normal tape : 50 Hz –15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : Playback head x1 Deck 2 : Recording/playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05% (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-FNV800>

Cabinet type	3 way, bass reflex with surround speaker (magnetic sealed type)
Speakers	Woofer : 140 mm ($5\frac{5}{8}$ in.) cone type Tweeter : 80 mm ($3\frac{1}{4}$ in.) cone type Super tweeter : 20 mm ($\frac{13}{16}$ in.) ceramic type Surround speaker : 80 mm ($3\frac{1}{4}$ in.) cone type
Impedance	Front speaker : 6 ohms Surround speaker : 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	235 x 302 x 270 mm ($9\frac{3}{8}$ x 12 x $10\frac{3}{4}$ in.)
Weight	3.8 kg (8 lbs 6 oz.)

<General>

Power requirements	230 V AC, 50 Hz
Power consumption	330 W
Dimensions of main unit (W x H x D)	260 x 307 x 345 mm ($10\frac{1}{4}$ x $12\frac{1}{8}$ x $13\frac{5}{8}$ in.)
Weight of main unit	8.0 kg (17 lbs 10 oz.)

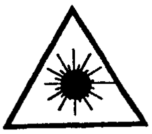
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ▯▯ are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound, Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

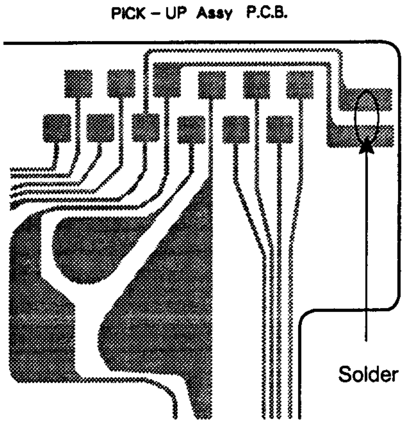
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS - 213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in figure below.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	S6-804-060-030		IC,LB9051A
	86-NF5-601-010		C-IC,LC866432V-5A45<V>
	86-NF5-690-010		C-IC,LC866448W-5B86<NAP1MK3,820EZ>
	87-070-083-019		IC,GP1U281X
	87-A20-060-019		IC,STK-419-110
	87-070-121-010		IC,HA12185NT
	87-070-232-019		IC,BA3834S
	87-017-915-089		IC,BU4094BCF
	87-001-874-019		IC,HA12134A
	87-A20-107-019		IC,BA3836
	87-017-804-019		IC,BU4052BC
	87-A20-056-019		IC,BA3880S
	87-017-914-019		IC,BU4094 BC
	87-017-888-089		IC,NJM4558MD
	87-070-184-040		IC,M65846FP-600D
	87-A20-069-049		C-IC,BA3842F
	87-070-127-119		IC,LC72131
	87-017-714-119		IC,LA1836
	87-A20-105-049		IC,BU1921FS<NAP1MK3,820EZ>
	87-001-792-089		IC,NJM2100M<NAP1MK3,820EZ>
TRANSISTOR			
	87-026-463-089		TR,2SA933S(RS)
	89-213-702-019		TR,2SB1370E
	89-113-187-089		TR,2SA1318TU
	87-026-610-089		TR,KTC3198GR
	89-332-665-089		TR,2SC3266GR
	89-327-126-089		C-TR,2SC2712BL
	89-337-221-389		C-TR,2SC3722K
	89-327-125-088		C-TR,2SC2712GR
	89-111-625-089		C-TR,2SA1162GR
	87-026-210-089		C-TR,DTC144EK T147
	87-026-211-089		C-TR,DTA144EK T147
	89-333-266-089		C-TR,2SC3326B
	87-026-609-089		TR, KTA1266GR
	89-109-705-089		TR,2SA970GR
	89-026-210-088		C-TR,DTC144EK
	87-026-226-089		C-TR,DTA143EK
	89-502-466-089		TR FET 2SK246-BL (TPE2)
	87-026-228-089		C-TR,DTA124EK
	89-112-965-089		TR,2SA1296GR
	89-333-317-089		TR,2SC3331T
	89-109-521-089		TR,2SA952K
	89-406-555-089		TR,2SD655E
	87-026-238-089		C-TR,DTC144WK
	87-026-214-089		TR,DTA114YS
	89-327-143-089		C-TR,2SC2714 (O)
	87-026-269-089		TR,DTA114ES
	89-421-141-289		C-TR,2SD2114K,UV
	89-505-434-589		C-FET,2SK543(4/5)
DIODE			
	87-A40-116-069		DIODE,RS403L-B-D-51
	87-A40-115-069		DIODE,RS603M
	87-070-274-089		DIODE,1N4003 SEM
	87-020-027-089		C-DIODE,1SS184
	87-020-125-089		C-DIODE,1SS181
	87-017-437-089		DIODE,1N4148M
	87-017-174-089		ZENER,HZS11A3L
	87-017-147-089		ZENER,HZS33-2
	87-017-978-089		DIODE,1N4003
	87-A40-134-089		DIODE,G2B
	87-A40-184-090		DIODE,RK34
	87-A40-199-089		ZENER,UZL6H2
	87-A40-202-089		ZENER,UZ5.1B SB
	87-A40-200-089		ZENER,UZL11L3
	87-020-331-089		C-DIODE,DAN202K
	87-017-123-089		ZENER,HZS11A3L
	87-020-330-089		C-DIODE,DAP202K
	87-017-148-089		ZENER,HZS6A1L
	87-001-559-089		DIODE,1SS131
	87-A40-211-089		ZENER,UZ36BSA
	87-A40-197-089		ZENER,UZL6L1
	87-A40-198-089		ZENER,UZL6M1
	87-020-465-089		DIODE,1SS133
	87-A40-207-089		ZENER,UZ11BSC
MAIN C.B			
C101	87-016-474-099		CAP,E 3300-50
C102	87-016-474-099		CAP,E 3300-50
C104	87-010-235-089		CAP,E 470-16 SME
C105	87-010-235-089		CAP,E 470-16 SME
C106	87-010-409-089		CAP,E 220-50 SME
C107	87-010-247-089		CAP,E 100-50 SME
C108	87-010-247-089		CAP,E 100-50 SME
C109	87-010-263-089		CAP,E 100-10 SME 5X11
C112	87-010-382-089		CAP,E 22-25 SME
C113	87-010-403-089		CAP,E 3.3-50 SME
C116	87-012-140-089		C-CAP,S 470P-50 CH
C121	87-010-196-089		C-CAP,S 0.1-25 F
C122	87-010-196-089		C-CAP,S 0.1-25 F
C123	87-018-209-089		CAP,TC-U 0.1-50 F
C124	87-010-196-089		C-CAP,S 0.1-25 F
C145	87-010-186-089		C-CAP,4700P-50B
C146	87-010-186-089		C-CAP,4700P-50B
C152	87-010-260-089		CAP,E 47-25 SME
C171	87-016-565-099		CAP,E 4700-25(JAM1)
C172	87-016-565-099		CAP,E 4700-25(JAM1)
C173	87-010-196-089		C-CAP,S 0.1-25 F
C174	87-010-196-089		C-CAP,S 0.1-25 F
C175	87-010-196-089		C-CAP,S 0.1-25 F
C176	87-015-785-089		C-CAP,0.1-25 F
C220	87-010-194-089		C-CAP,S 0.047-25 F
C221	87-010-544-089		CAP,E 0.1-50 SME
C222	87-010-544-089		CAP,E 0.1-50 SME
C223	87-010-187-089		C-CAP,S 5600P-50 B
C224	87-010-187-089		C-CAP,S 5600P-50 B
C225	87-012-179-089		C-CAP,S 1200P-50 B
C226	87-012-179-089		C-CAP,S 1200P-50 B
C227	87-010-405-089		CAP,E 10-50 SME
C228	87-010-405-089		CAP,E 10-50 SME
C229	87-010-402-089		CAP,E 2.2-50 SME
C230	87-010-402-089		CAP,E 2.2-50 SME
C231	87-010-147-089		C-CAP,S 3P-50 CH
C232	87-018-098-089		CAP,TC-U 3.3P-50 SL
C233	87-010-196-089		C-CAP,S 0.1-25 F
C234	87-010-196-089		C-CAP,S 0.1-25 F
C235	87-010-196-089		C-CAP,S 0.1-25 F
C236	87-010-196-089		C-CAP,S 0.1-25 F
C239	87-018-134-089		CAP,TC-U 100P-50B
C240	87-018-134-089		CAP,TC-U 100P-50B
C241	87-010-197-089		C-CAP,S 0.01-25 B<NAP1MK3,820EZ>
C242	87-010-197-089		C-CAP,S 0.01-25 B<NAP1MK3,820EZ>
C243	87-010-318-089		C-CAP,S 47P-50CH<V>
C243	87-010-322-089		C-CAP,S100P-50CH<NAP1MK3,820EZ>
C244	87-010-318-089		C-CAP,S 47P-50CH<V>
C244	87-010-322-089		C-CAP,S100P-50CH<NAP1MK3,820EZ>
C249	87-018-209-089		CAP,TC-U 0.1-50 F
C250	87-A10-200-010		CAP,E 10-100 PP
C255	87-010-178-089		C-CAP,S 1000P-50 B
C256	87-010-178-089		C-CAP,S 1000P-50 B<V>
C260	87-015-785-089		C-CAP,0.1-25 F
C301	87-010-318-089		C-CAP,S 47P-50 CH
C302	87-010-318-089		C-CAP,S 47P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C303	87-012-157-089		C-CAP,S 330P-50 CH
C304	87-012-157-089		C-CAP,S 330P-50 CH
C305	87-012-145-089		C-CAP,S 270P-50 CH
C306	87-012-145-089		C-CAP,S 270P-50 CH
C307	87-010-196-089		C-CAP,S 0.1-25 F
C311	87-010-198-089		C-CAP,S 0.022-25 B
C312	87-010-198-089		C-CAP,S 0.022-25 B
C313	87-010-182-089		C-CAP,S 2200P-50 B
C314	87-010-182-089		C-CAP,S 2200P-50 B
C315	87-010-180-089		C-CAP,S 1500P-50 B
C316	87-010-180-089		C-CAP,S 1500P-50 B
C317	87-012-142-089		C-CAP,S 0.33-16 F
C318	87-012-142-089		C-CAP,S 0.33-16 F
C319	87-012-141-089		C-CAP,S 0.22-16 F
C320	87-012-141-089		C-CAP,S 0.22-16 F
C321	87-010-196-089		C-CAP,S 0.1-25 F
C322	87-010-196-089		C-CAP,S 0.1-25 F
C324	87-010-260-089		CAP,E 47-25 SME
C325	87-010-370-089		CAP,E 330-6.3 SME
C326	87-010-196-089		C-CAP,S 0.1-25 F
C330	87-010-401-089		CAP,E 1-50 SME
C332	87-015-785-089		C-CAP,0.1-25 F
C335	87-010-805-089		C-CAP,S 1-16F
C336	87-010-805-089		C-CAP,S 1-16F
C337	87-010-196-089		C-CAP,S 0.1-25 F
C338	87-010-196-089		C-CAP,S 0.1-25 F
C339	87-010-196-089		C-CAP,S 0.1-25 F
C340	87-015-785-089		C-CAP,0.1-25 F
C351	87-012-154-089		C-CAP,S 150P-50 CH
C352	87-012-154-089		C-CAP,S 150P-50 CH
C451	87-012-140-089		C-CAP,S 470P-50 CH
C452	87-012-140-089		C-CAP,S 470P-50 CH
C453	87-010-178-089		C-CAP,S 1000P-50 B
C454	87-010-175-089		C-CAP,560P-50SL
C455	87-010-178-089		C-CAP,S 1000P-50 B
C456	87-010-408-089		CAP,E 47-50 SME
C457	87-010-197-089		C-CAP,S 0.01-25 B
C458	87-010-183-089		C-CAP,S 2700P-50 B
C459	87-010-183-089		C-CAP,S 2700P-50 B
C460	87-010-183-089		C-CAP,S 2700P-50 B
C470	87-010-196-089		C-CAP,S 0.1-25 F
C501	87-010-179-089		C-CAP,S 1200P-50 B
C502	87-010-179-089		C-CAP,S 1200P-50 B
C503	87-012-155-089		C-CAP,S 180P-50 CH
C504	87-012-155-089		C-CAP,S 180P-50 CH
C515	87-010-545-089		CAP,E 0.22-50 SME
C516	87-010-545-089		CAP,E 0.22-50 SME
C519	87-015-785-089		C-CAP,0.1-25 F
C521	87-010-196-089		C-CAP,S 0.1-25 F
C522	87-010-318-089		C-CAP,S 47P-50 CH
C523	87-010-197-089		C-CAP,S 0.01-25 B
C524	87-010-402-089		CAP,E 2.2-50 SME
C525	87-010-184-089		C-CAP,S 3300P-50 B
C526	87-010-196-089		C-CAP,S 0.1-25 F
C527	87-010-401-089		CAP,E 1-50 SME
C528	87-010-401-089		CAP,E 1-50 SME
C529	87-010-384-089		CAP,E 100-25 SME
C530	87-010-197-089		C-CAP,S 0.01-25 B
C531	87-010-183-089		C-CAP,S 2700P-50 B
C532	87-010-194-089		C-CAP,S 0.047-25 F
C533	87-010-196-089		C-CAP,S 0.1-25 F
C534	87-010-263-089		CAP,E 100-10 SME 5X11
C535	87-010-401-089		CAP,E 1-50 SME
C536	87-010-401-089		CAP,E 1-50 SME
C537	87-010-545-089		CAP,E 0.22-50 SME
C540	87-010-196-089		C-CAP,S 0.1-25 F
C541	87-010-196-089		C-CAP,S 0.1-25 F
C542	87-010-405-089		CAP,E 10-50 SME
C543	87-010-546-089		CAP,E 0.33-50 SME
C544	87-010-546-089		CAP,E 0.33-50 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C545	87-010-400-089		CAP,E 0.47-50 SME
C546	87-010-400-089		CAP,E 0.47-50 SME
C547	87-015-632-089		C-CAP,0.015-50 BK
C548	87-015-632-089		C-CAP,0.015-50 BK
C553	87-015-627-089		C-CAP,1000P-50 B
C554	87-015-627-089		C-CAP,1000P-50 B
C557	87-010-178-089		C-CAP,S 1000P-50 B
C558	87-010-178-089		C-CAP,S 1000P-50 B
C601	87-010-178-089		C-CAP,S 1000P-50 B
C602	87-010-178-089		C-CAP,S 1000P-50 B
C603	87-010-405-089		CAP,E 10-50 SME
C604	87-010-405-089		CAP,E 10-50 SME
C605	87-010-260-089		CAP,E 47-25 SME
C606	87-010-101-089		CAP,E 220-16 SME
C607	87-010-188-089		C-CAP,S 6800P-50 B
C608	87-010-188-089		C-CAP,S 6800P-50 B
C609	87-018-127-089		CAP,TC-U 470P-50 B
C610	87-018-127-089		CAP,TC-U 470P-50 B
C611	87-010-197-089		C-CAP,S 0.01-25 B
C612	87-010-197-089		C-CAP,S 0.01-25 B
C613	87-010-195-089		C-CAP,S 0.068-25 F
C614	87-010-195-089		C-CAP,S 0.068-25 F
C615	87-010-404-089		CAP,E 4.7-50 SME
C616	87-010-404-089		CAP,E 4.7-50 SME
C617	87-010-404-089		CAP,E 4.7-50 SME
C618	87-010-404-089		CAP,E 4.7-50 SME
C641	87-010-196-089		C-CAP,S 0.1-25 F
C642	87-010-196-089		C-CAP,S 0.1-25 F
C673	87-010-316-089		C-CAP,S 33P-50CH<NAP1MK3,820EZ>
C674	87-010-316-089		C-CAP,S 33P-50CH<NAP1MK3,820EZ>
C675	87-010-318-089		C-CAP,S 47P-50CH<NAP1MK3,820EZ>
C676	87-010-318-089		C-CAP,S 47P-50CH<NAP1MK3,820EZ>
C701	87-010-381-089		CAP,E 330-16 SME
C702	87-010-404-089		CAP,E 4.7-50 SME
C703	87-010-197-089		C-CAP,S 0.01-25 B
C704	87-010-197-089		C-CAP,S 0.01-25 B
C711	87-010-263-089		CAP,E 100-10 SME 5X11
C712	87-010-196-089		C-CAP,S 0.1-25 F
C722	87-010-152-089		C-CAP,S 8P-50 CH
C723	87-010-178-089		C-CAP,S 1000P-50 B
C725	87-010-178-089		C-CAP,S 1000P-50 B
C727	87-010-196-089		C-CAP,S 0.1-25 F
C728	87-010-248-089		CAP,E 220-10 SME
C735	87-018-134-089		CAP,TC-U 0.01-16 Y
C770	87-010-405-089		CAP,E 10-50 SME
C771	87-010-405-089		CAP,E 10-50 SME
C772	87-010-194-089		C-CAP,S 0.047-25 F
C773	87-010-196-089		C-CAP,S 0.1-25 F
C774	87-010-263-089		CAP,E 100-10 SME 5X11
C775	87-010-405-089		CAP,E 10-50 SME
C776	87-010-197-089		C-CAP,S 0.01-25 B
C777	87-010-400-089		CAP,E 0.47-50 SME
C778	87-010-401-089		CAP,E 1-50 SME
C779	87-010-401-089		CAP,E 1-50 SME
C780	87-010-197-089		C-CAP,S 0.01-25 B
C781	87-010-405-089		CAP,E 10-50 SME
C782	87-010-405-089		CAP,E 10-50 SME
C785	87-010-197-089		C-CAP,S 0.01-25 B
C786	87-010-197-089		C-CAP,S 0.01-25 B
C787	87-010-184-089		C-CAP,S 3300P-50 B
C788	87-010-184-089		C-CAP,S 3300P-50 B
C789	87-010-179-089		C-CAP,S 1200P-50 B K
C790	87-010-179-089		C-CAP,S 1200P-50 B
C791	87-010-401-089		CAP,E 1-50 SME
C792	87-010-182-089		C-CAP,S 2200P-50 B
C793	87-010-189-089		C-CAP,S 8200P-50 B
C794	87-010-408-089		CAP,E 47-50 SME
C795	87-010-194-089		C-CAP,S 0.047-25 F
C796	87-010-403-089		CAP,E 3.3-50 SME
C802	87-010-197-089		C-CAP,S 0.01-25 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C803	87-018-134-089		CAP,TC-U 0.01-16 Y
C814	87-010-196-089		C-CAP,S 0.1-25 F
C815	87-018-134-089		CAP,TC-U 0.01-16 Y<V>
C817	87-010-197-089		C-CAP,S 0.01-25 B
C818	87-010-197-089		C-CAP,S 0.01-25 B
C819	87-010-197-089		C-CAP,S 0.01-25 B
C820	87-010-408-089		CAP,E 47-50 SME
C821	87-010-197-089		C-CAP,S 0.01-25 B
C823	87-010-197-089		C-CAP,S 0.01-25 B
C828	87-010-197-089		C-CAP,S 0.01-25 B
C829	87-010-197-089		C-CAP,S 0.01-25 B
C830	87-015-819-089		CHIP CAP 0.01
C835	87-010-197-089		C-CAP,S 0.01-25 B
C860	87-010-248-089		CAP,E 220-50 SME<NAP1MK3,820EZ>
C861	87-010-196-089		C-CAP,S 0.1-25 F<NAP1MK3,820EZ>
C862	87-010-182-089		C-CAP,S 2200P-50 B<NAP1MK3,820EZ>
C863	87-010-178-089		C-CAP,S 1000P-50 B<NAP1MK3,820EZ>
C864	87-010-315-089		C-CAP,S 27P-50 CH<NAP1MK3,820EZ>
C865	87-010-315-089		C-CAP,S 27P-50 CH<NAP1MK3,820EZ>
C866	87-010-197-089		C-CAP,S 0.01-25 B<NAP1MK3,820EZ>
C867	87-010-318-089		C-CAP,S 47P-50 CH<NAP1MK3,820EZ>
C868	87-010-405-089		CAP,E 10-50 SME<NAP1MK3,820EZ>
C869	87-010-196-089		C-CAP,S 0.1-25 F<NAP1MK3,820EZ>
C871	87-010-805-089		C-CAP,S 1-16 F<NAP1MK3,820EZ>
C872	87-010-197-089		C-CAP,S 0.01-25 B<NAP1MK3,820EZ>
C901	87-010-197-089		C-CAP,S 0.01-25 B
C902	87-010-196-089		C-CAP,S 0.1-25 F
C903	87-010-119-089		CAP,TC-U 100P-50 B
C942	87-010-154-089		C-CAP,S 10P-50 CH
C946	87-010-401-089		CAP,E 1-50 SME
C952	87-010-197-089		C-CAP,S 0.01-25 B
C957	87-010-315-089		C-CAP,S 27P-50 CH
C958	87-010-197-089		C-CAP,S 0.01-25 B
C960	87-010-196-089		C-CAP,S 0.1-25 F
C961	87-010-150-089		C-CAP,S 6P-50 CH
C987	87-018-134-089		CAP,TC-U 0.01-16 Y
C990	87-010-197-089		C-CAP,S 0.01-25 B
C993	87-018-134-089		CAP,TC-U 0.01-16 Y
C995	87-010-197-089		C-CAP,S 0.01-25 B
C999	87-010-196-089		C-CAP,S 0.1-25 F
CF801	87-008-423-019		CF,SFE10.7MS3G-A
CF802	82-785-747-019		CF,MS2GHY,R
FR121	87-029-060-089		RES,FUSE 33-1/4W J
FR122	87-029-060-089		RES,FUSE 33-1/4W J
J252	87-A60-024-019		JACK 6.3BLK W/S WKM
J253	87-099-802-019		JACK,PIN 3P BRW
J254	87-033-240-019		TERMINAL,SP 4P32SV1-05
J652	87-099-741-019		JACK,PIN 2P (JT)
J801	87-033-241-019		TERMINAL,ANT AJ2039<NAP1MK3,820EZ>
J801	87-033-239-019		TERMINAL,HSP-154-2<V>
L101	87-003-383-019		COIL,1UH-S
L102	87-003-383-019		COIL,1UH-S
L403	87-007-341-019		COIL,TRAP 85K
L404	87-007-341-019		COIL,TRAP 85K
L451	87-007-342-019		COIL,OSC 85K BIAS
L701	87-A50-027-019		COIL,1 POLE MPX(TOK)
L702	87-A50-027-019		COIL,1 POLE MPX(TOK)
L721	87-A50-015-019		COIL,FM DET(TOK)
L742	87-A90-051-019		FLTR,CFAZ-450(TOK)
L743	87-005-564-089		C-COIL,2.2UH<NAP1MK3,820EZ>
L770	87-003-102-089		COIL,10UH
L832	87-005-847-089		COIL,2.2UH(CECS)
L850	87-005-847-089		COIL,2.2UH(CECS)<NAP1MK3,820EZ>
L941	87-A50-020-019		COIL,ANT LW
L942	87-A50-019-019		COIL,OSC LW
L981	86-NF4-665-019		AM PACK 1(TOK)
⚠PR110	87-026-681-089		PROTECTOR,5A 60V 491
⚠PR111	87-026-681-089		PROTECTOR,5A 60V 491
⚠PR112	87-026-689-089		PROTECTOR,1A 60V 491
R105	87-022-600-089		RES,M/F 0.1-2W J

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R106	87-022-600-089		RES,M/F 0.1-2W J
RY101	87-045-361-019		RELAY,DH12D2-OS(M)-2<V>
RY101	87-A90-143-019		RELAY,DG12D2-OS(M)<NAP1MK3,820EZ>
RY102	87-045-382-019		RELAY,OUAZ-SH-112L
SFR301	87-024-174-089		SFR33K DIA6 V
SFR302	87-024-174-089		SFR33K DIA6 V
SFR303	87-024-174-089		SFR33K DIA6 V
SFR304	87-024-174-089		SFR33K DIA6 V
SFR305	87-024-175-089		SFR,47K DIA6 V
SFR306	87-024-175-089		SFR,47K DIA6 V
SFR451	87-024-175-089		SFR,47K DIA6 V
SFR452	87-024-175-089		SFR,47K DIA6 V
SFR722	87-024-171-089		SFR 4.7K DIA6 V
TC701	87-011-253-089		TRIMER,30P LAR
TC942	87-011-253-089		TRIMER,30P LAR
TH241	87-A90-157-089		C-THMS,4.7K
VR651	82-NF5-660-019		VR 50K BX2 RK14K 12A
W101	85-NF5-628-019		F-CABLE 7P-2.5
W301	86-NF5-618-019		CONN ASSY,8P RPB
W604	85-NF5-617-019		CABLE,FFC 6P-1.25
X703	84-508-618-019		VIB,CER CSB 456 F/5
X721	87-030-372-019		VIB,XTAL 7.2MHZ
X850	89-KT1-608-019		VIB,XTAL 4.332MHZ<NAP1MK3,820EZ>

FRONT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C201	87-015-698-049		CAP,E 4.7-50 7L
C202	87-015-698-049		CAP,E 4.7-50 7L
C203	87-010-392-049		CAP,E 33-35 SME
C204	87-010-401-049		CAP,E 1-50 SME
C205	87-010-263-049		CAP,E 100-10
C206	87-A10-116-049		CAP,E 330-6.3 GAS
C207	87-010-494-049		CAP,E 1-50 GAS
C208	87-010-196-089		C-CAP,S 0.1-25 F
C209	87-010-316-089		C-CAP,S 33P-50 CH
C210	87-010-154-089		C-CAP,S 10P-50 CH
C211	87-015-689-049		CAP,E 10-35 7L
C212	87-010-498-049		CAP,E 10-16 GAS
C213	87-010-196-089		C-CAP,S 0.1-25 F
C214	87-010-196-089		C-CAP,S 0.1-25 F
C215	87-010-196-089		C-CAP,S 0.1-25 F
C223	87-010-178-089		C-CAP,S 1000P-50 B
C250	87-010-178-089		C-CAP,S 1000P-50 B
C251	87-010-196-089		C-CAP,S 0.1-25 F
C381	87-010-196-089		C-CAP,S 0.1-25 F
C382	87-010-196-089		C-CAP,S 0.1-25 F
C383	87-010-196-089		C-CAP,S 0.1-25 F
C384	87-010-196-089		C-CAP,S 0.1-25 F
C385	87-010-322-089		C-CAP,S 100P-50 CH
C389	87-010-196-089		C-CAP,S 0.1-25 F
C401	87-010-196-089		C-CAP,S 0.1-25 F
C402	87-010-196-089		C-CAP,S 0.1-25 F
C501	87-010-553-049		CAP,E 47-16 GAS
C602	87-010-322-089		C-CAP,S 100P-50 CH
C603	87-010-177-089		C-CAP,S 820P-50 SL
C604	87-010-186-089		C-CAP,S 4700P-50 B
C605	87-010-491-049		CAP,E 0.22-50 GAS
C606	87-010-196-089		C-CAP,S 0.1-25 F
C607	87-010-321-089		C-CAP,S 82P-50 CH
C608	87-010-112-049		CAP,E 100-16
C609	87-010-196-089		C-CAP,S 0.1-25 F
C611	87-010-248-049		CAP,E 220-10 SME
C612	87-010-322-089		C-CAP,S 100P-50 CH
C613	87-010-196-089		C-CAP,S 0.1-25 F
C630	87-010-498-049		CAP,E 10-16 GAS
C640	87-010-406-049		CAP,E 22-50 SME
C646	87-010-196-089		C-CAP,S 0.1-25 F
C651	87-010-152-089		C-CAP,S 8P-50 CH
C652	87-010-152-089		C-CAP,S 8P-50 CH
C653	87-010-426-089		C-CAP,S 0.012-25 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C654	87-010-178-089		C-CAP,S 1000P-50 B
C656	87-012-358-089		C-CAP S 0.47-10FZ
C657	87-010-196-089		C-CAP,S 0.1-25 F
C658	87-010-263-049		CAP,E 100-10
C659	87-010-263-049		CAP,E 100-10
C661	87-010-177-089		C-CAP,S 820P-50 SL
C664	87-012-141-089		C-CAP,S 0.22-16 F
C665	87-010-184-089		C-CAP,S 3300P-50 B
C666	87-010-426-089		C-CAP,S 0.012-25 B
C668	87-012-358-089		C-CAP S 0.47-10FZ
C669	87-010-404-049		CAP,E 4.7-50 SME
C670	87-010-404-049		CAP,E 4.7-50 SME
C671	87-012-156-089		C-CAP,S 220P-50 CH
C675	87-010-180-089		C-CAP,S 1500P-50 B
C714	87-010-263-049		CAP,E 100-10
FB601	87-008-372-089		FLTR,EMI BL 01RN1
FL101	86-NF5-603-019		FL,BJ454GK<V>
FL101	86-NF4-610-019		FL,BJ461GK<NAP1MK3,820EZ>
J601	82-NF7-630-019		JACK,3.5 MO
J621	82-NF7-630-019		JACK,3.5 MO
L201	87-A50-052-019		COIL,CLOCK 5.76MHZ T1
L650	87-005-487-089		COIL,150UH J FLR50
LED401	87-070-281-089		LED,SLZ736A-25-S-T
LED402	87-070-281-089		LED,SLZ736A-25-S-T
LED403	87-070-281-089		LED,SLZ736A-25-S-T
LED404	87-070-281-089		LED,SLZ736A-25-S-T
LED405	87-070-281-089		LED,SLZ736A-25-S-T
LED406	87-070-281-089		LED,SLZ736A-25-S-T
LED407	87-070-199-089		LED,SLP738F-81-S-T1
LED408	87-070-199-089		LED,SLP738F-81-S-T1
LED409	87-070-199-089		LED,SLP738F-81-S-T1
LED410	87-070-199-089		LED,SLP738F-81-S-T1
LED411	87-070-199-089		LED,SLP738F-81-S-T1
LED412	87-070-199-089		LED,SLP738F-81-S-T1
LED413	87-070-199-089		LED,SLP738F-81-S-T1
LED414	87-070-199-089		LED,SLP738F-81-S-T1
LED420	87-070-201-089		LED,SLP9118C-51-S-T1
LED421	87-070-201-089		LED,SLP9118C-51-S-T1
LED422	87-070-201-089		LED,SLP9118C-51-S-T1
LED423	87-070-201-089		LED,SLP9118C-51-S-T1
LED424	87-070-278-019		LED,SLZ-738A-24-S
LED425	87-070-278-019		LED,SLZ-738A-24-S
LED426	87-070-278-019		LED,SLZ-738A-24-S
LED427	87-070-278-019		LED,SLZ-738A-24-S
LED428	87-070-290-019		LED,SLZ 936-30-S
LED429	87-070-290-019		LED,SLZ 936-30-S
LED451	87-070-201-089		LED,SLP9118C-51-S-T1
LED452	87-070-201-089		LED,SLP9118C-51-S-T1
LED453	87-070-201-089		LED,SLP9118C-51-S-T1
LED454	87-070-201-089		LED,SLP9118C-51-S-T1
LED455	87-070-201-089		LED,SLP9118C-51-S-T1
LED456	87-070-201-089		LED,SLP9118C-51-S-T1
S301	87-036-215-089		SW,TACT EVQ21404M
S302	87-036-215-089		SW,TACT EVQ21404M
S303	87-036-215-089		SW,TACT EVQ21404M
S304	87-036-215-089		SW,TACT EVQ21404M
S305	87-036-215-089		SW,TACT EVQ21404M
S306	87-036-215-089		SW,TACT EVQ21404M<NAP1MK3,820EZ>
S307	87-036-215-089		SW,TACT EVQ21404M<NAP1MK3,820EZ>
S308	87-036-215-089		SW,TACT EVQ21404M<NAP1MK3,820EZ>
S321	87-036-215-089		SW,TACT EVQ21404M
S322	87-036-215-089		SW,TACT EVQ21404M
S323	87-036-215-089		SW,TACT EVQ21404M
S324	87-036-215-089		SW,TACT EVQ21404M
S325	87-036-215-089		SW,TACT EVQ21404M
S326	87-036-215-089		SW,TACT EVQ21404M
S327	87-036-215-089		SW,TACT EVQ21404M
S328	87-036-215-089		SW,TACT EVQ21404M
S341	87-036-215-089		SW,TACT EVQ21404M
S342	87-036-215-089		SW,TACT EVQ21404M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S343	87-036-215-089		SW,TACT EVQ21404M
S344	87-036-215-089		SW,TACT EVQ21404M
S345	87-036-215-089		SW,TACT EVQ21404M
S346	87-036-215-089		SW,TACT EVQ21404M
S347	87-036-215-089		SW,TACT EVQ21404M
S348	87-036-215-089		SW,TACT EVQ21404M
VR601	82-NK7-616-019		VR,10KB RK11K1130
VR602	82-NK7-615-019		VR,10KA RK11K1130
W104	88-913-181-119		FF-CABLE,13P 1.25
W301	83-NF8-613-019		F-CABLE 2P-2.0 KEY
W501	88-915-181-119		FF-CABLE,15P 1.25
W801	88-910-131-119		FF-CABLE,10P 1.25

MVR C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-401-089		CAP,E 1-50 SME
C702	87-010-401-089		CAP,E 1-50 SME
C703	87-010-993-089		C-CAP,S 0.056-25 B
C704	87-010-993-089		C-CAP,S 0.056-25 B
C705	87-012-393-089		C-CAP,S 0.022-16 RK
C706	87-012-393-089		C-CAP,S 0.022-16 RK
C707	87-010-182-089		C-CAP,S 2200P-50 B
C708	87-010-182-089		C-CAP,S 2200P-50 B
C709	87-012-393-089		C-CAP,S 0.22-16,R,K
C710	87-012-393-089		C-CAP,S 0.22-16,R,K
C711	87-016-081-089		C-CAP,S 0.1-16 RK
C712	87-010-405-089		CAP,E 10-50 SME
C713	87-010-260-089		CAP,E 47-25 SME
C715	87-010-401-089		CAP,E 1-50 SME
C751	87-010-198-089		C-CAP,S 0.022-25 B
MVR751	86-NF5-617-019		VR,RTRY 50KBX2 W/S

KEY C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S349	87-036-215-089		SW,TACT EVQ21404M
S350	87-036-215-089		SW,TACT EVQ21404M
S351	87-036-215-089		SW,TACT EVQ21404M
S352	87-036-215-089		SW,TACT EVQ21404M
S353	87-036-215-089		SW,TACT EVQ21404M

AC C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C103	87-010-187-089		C-CAP,S 0.01-25 B
⚠PR101	87-026-682-089		PROTECTOR,10A 60V 491
⚠PR102	87-026-682-089		PROTECTOR,10A 60V 491

PT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠	82-304-743-019		TERMINAL,1P
⚠CF109	87-033-213-088		CLAMP FUSE SMK
⚠CF110	87-033-213-089		CLAMP FUSE SMK
⚠F109	87-035-364-019		FUSE,T 1.6A 250V T E
⚠PT001	86-NF5-608-019		PT,E 6NF-5

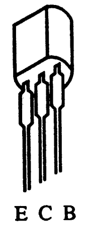
DECK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SFR1	87-024-581-089		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-310		SOL ASSY,27
SOL2	82-ZM1-626-310		SOL ASSY,27K
SW1	87-036-378-019		SW,PUSH 1-1-1 SH2
SW2	87-036-378-019		SW,PUSH 1-1-1 SH2
SW3	87-036-378-019		SW,PUSH 1-1-1 SH2
SW4	87-036-378-019		SW,PUSH 1-1-1 SH2
SW5	87-036-378-019		SW,PUSH 1-1-1 SH2
SW6	87-036-378-019		SW,PUSH 1-1-1 SH2
SW8	87-036-378-019		SW,PUSH 1-1-1 SH2

HEAD-1 C.B

HEAD-2 C.B

TRANSISTOR ILLUSTRATION



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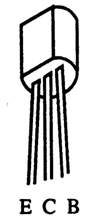

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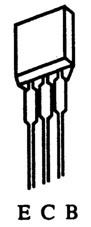
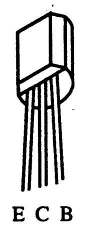
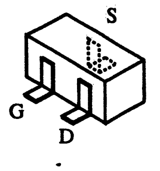
2SD655E
2SA970GR



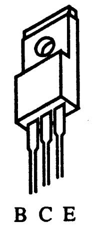
DTA114YS
DTA114ES
2SA933S



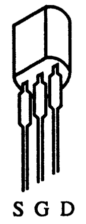
2SA1318
2SC3331T



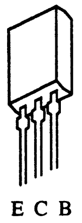
2SK543



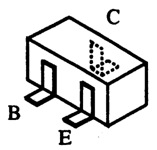
2SB1370



2SK246



2SD2005



2SA1162GR
2SC2712GR
2SC2714
2SC3722K
2SC3326B
DTC144EK

DTA144EK
DTA143EK
DTA124EK
DTC144WK
2SD2114 K,U,V

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

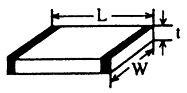
8 8 - □□□ □□□

A
抵抗部品コード
Resistor Code

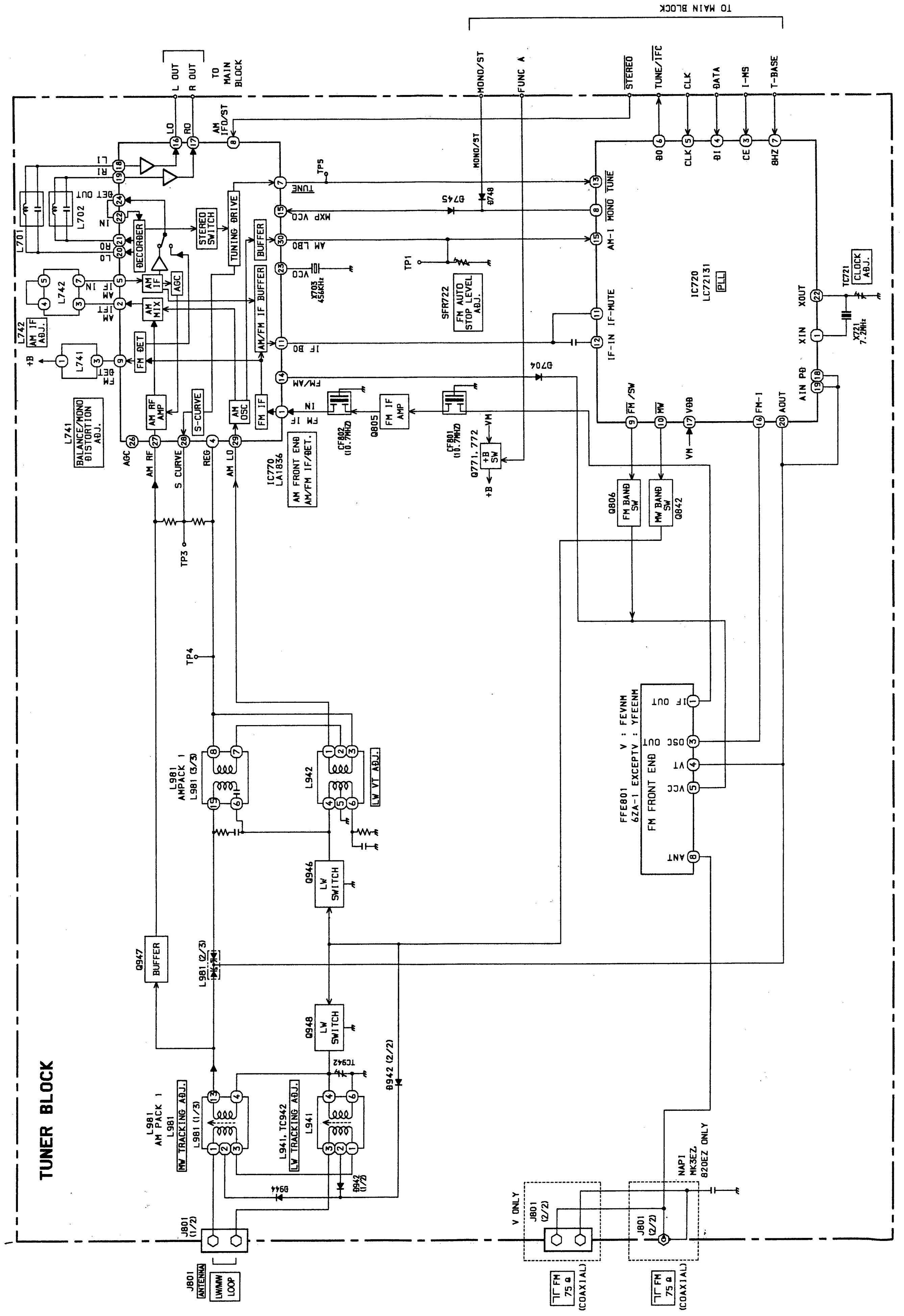
抵抗値
Value of resistor

桁表示
Figure

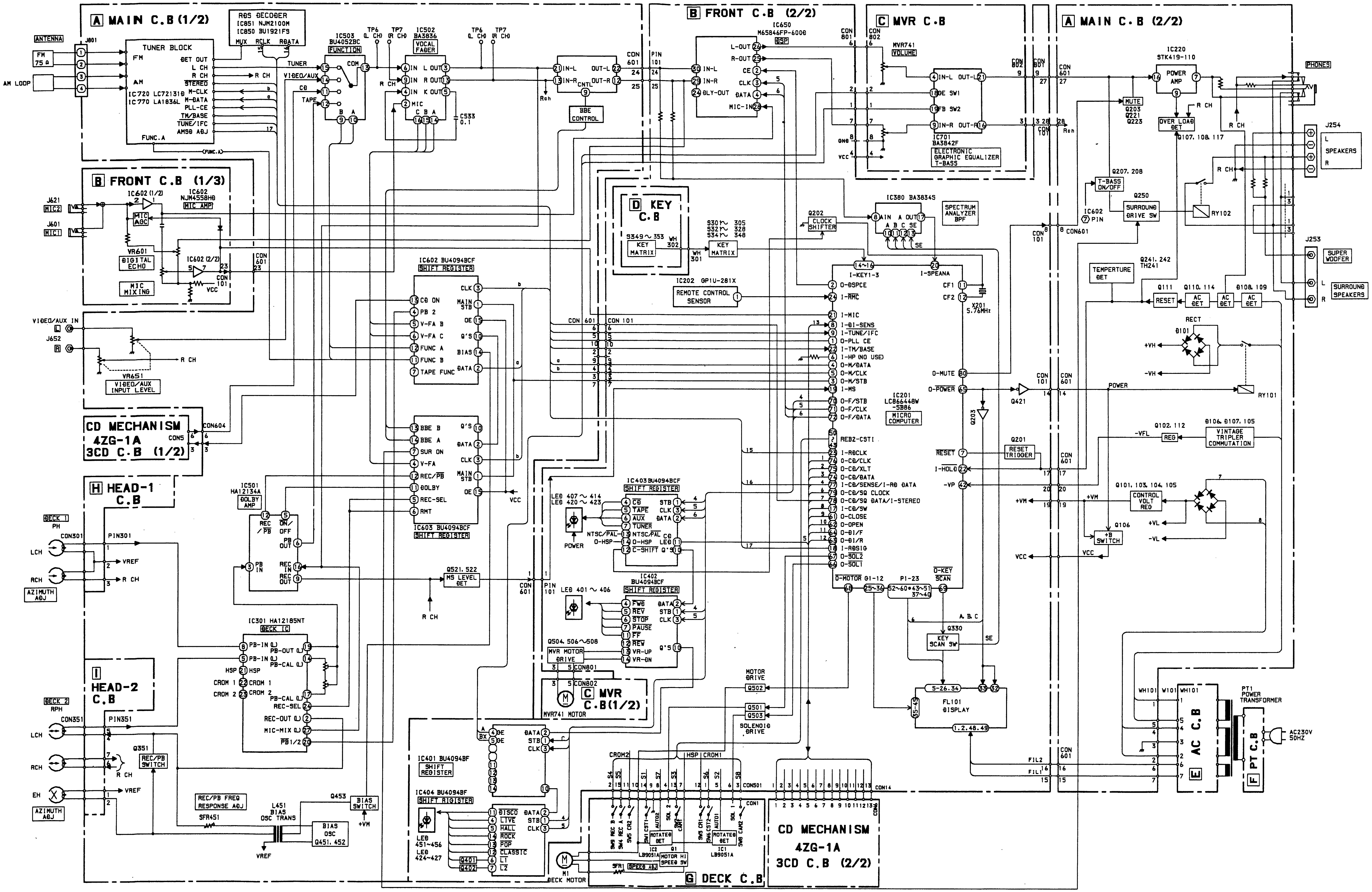
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード：A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

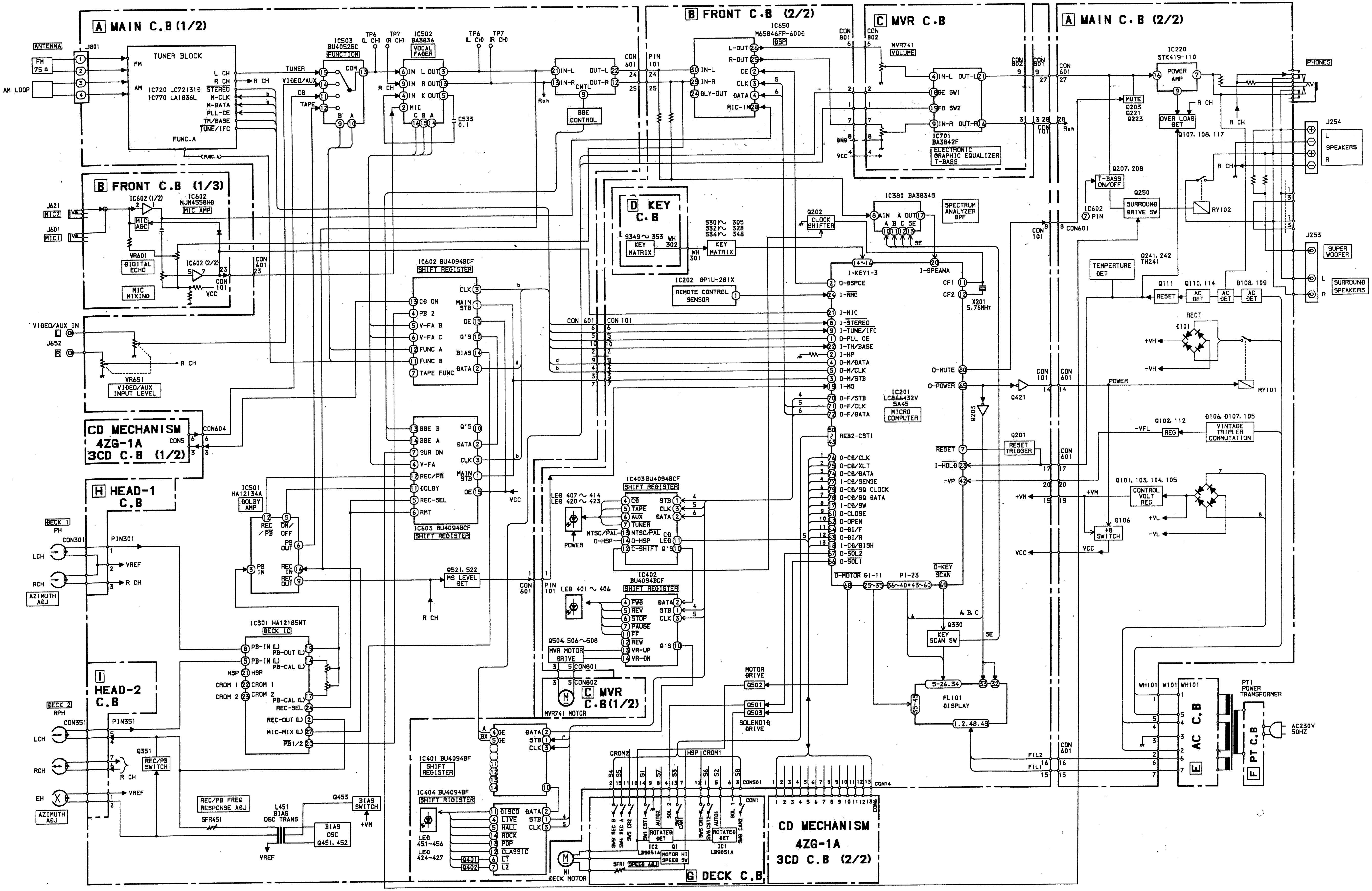
BLOCK DIAGRAM - 1 (TUNER)


TO MAIN BLOCK
L OUT
R OUT
TO MAIN BLOCK
MONO/ST
FUNC A
STEREO
TUNE/IFC
CLK
DATA
I-MS
T-BASE
TUNER BLOCK
IC720 LC72131 PLL
IC770 LA1836
AM FRONT END AM/FM IF/DET.
DECODER
STEREO SWITCH
TUNING DRIVE
BUFFER
AM/FM IF BUFFER
AM IF
AGC
AM MIX
FM DET
AM RF AMP
S-CURVE
AM OSC
FM IF
Q805 FM IF AMP
CF802 (10.7MHz)
CF801 (10.7MHz)
Q771, 772 +B SW
SFR722 FM AUTO STOP LEVEL ADJ.
TC721 CLOCK ADJ.
X721 7.2MHz
L741 BALANCE/MONO DISTORTION ADJ.
L742 AM IF ADJ.
Q806 FM BAND SW
Q842 MW BAND SW
FFE801 FM FRONT END
V : FEVNM
6ZA-1 EXCEPTV : YFEENM
IF OUT
OSC OUT
VT
VCC
ANT
L981 AMPACK 1
L942
LW VT ADJ.
Q946 LW SWITCH
Q947 BUFFER
Q948 LW SWITCH
TC942
D942
D944
L981 AM PACK 1
MW TRACKING ADJ.
L941, TC942 LW TRACKING ADJ.
J801 ANTENNA LW/MW LOOP
V ONLY
FM 75Ω (COAXIAL)
NAP1 MK3EZ 82DEZ ONLY
TP1
TP2
TP3
TP4
TP5

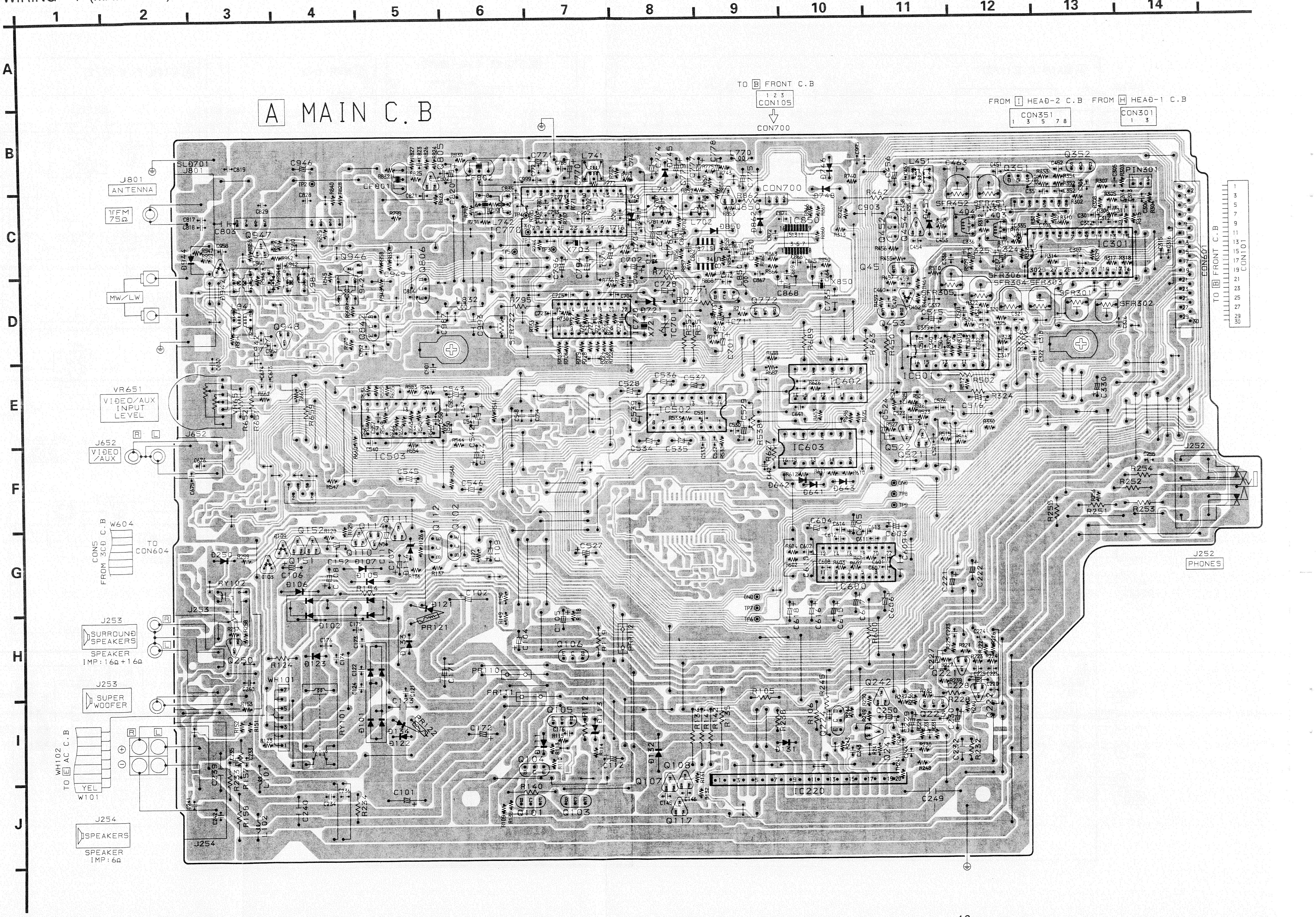
BLOCK DIAGRAM - 2 (MAIN / FRONT : EZ)


A MAIN C.B (1/2)
B FRONT C.B (2/2)
C MVR C.B
A MAIN C.B (2/2)
B FRONT C.B (1/3)
D KEY C.B
CD MECHANISM 4ZG-1A 3CD C.B (1/2)
H HEAD-1 C.B
I HEAD-2 C.B
C MVR C.B(1/2)
G DECK C.B
CD MECHANISM 4ZG-1A 3CD C.B (2/2)
E AC C.B
F PT C.B
ANTENNA
FM 75 Ω
AM LOOP
J801
TUNER BLOCK
IC720 LC72131B
IC770 LA1836L
RDS DECODER
IC651 NJM2100M
IC850 BU1921FS
IC503 BU4052BC
FUNCTION
IC502 BA3836
VOCAL FADER
TP6
TP7
C533 0.1
BBE CONTROL
IC650 M65846FP-6000
BSP
MVR741 VOLUME
IC701 BA3842F
ELECTRONIC GRAPHIC EQUALIZER T-BASS
IC220 STK419-110
POWER AMP
MUTE
Q203 Q221 Q223
OVER LOAD DET
Q107, 108, 117
PHONES
J254
SPEAKERS
J253
SUPER WOOFER
SURROUND SPEAKERS
J621 MIC2
J601 MIC1
IC602 NJM4558HD
MIC AMP
MIC AGC
VR601 DIGITAL ECHO
MIC MIXING
S349～353
KEY MATRIX
S301～305
S321～328
S341～348
IC380 BA3834S
SPECTRUM ANALYZER BPF
Q202 CLOCK SHIFTER
IC202 GP1U-281X
REMOTE CONTROL SENSOR
IC201 LC866448W -5B86
MICRO COMPUTER
X201 5.76MHz
T-BASS ON/OFF
Q207, 208
Q250 SURROUND DRIVE SW
RY102
TEMPERTURE DET
Q241, 242 TH241
Q111 RESET
Q110, 114 AC DET
D108, 109 AC DET
RECT
D101
RY101
Q421
Q201 RESET TRIGGER
Q102, 112 REG
D106, D107, 105 VINTAGE TRIPLER COMMUTATION
Q101, 103, 104, 105 CONTROL VOLT REG
Q106 +B SWITCH
VIDEO/AUX IN
J652
VR651 VIDEO/AUX INPUT LEVEL
IC602 BU4094BCF SHIFT REGISTER
IC603 BU4094BCF SHIFT REGISTER
IC501 HA12134A DOLBY AMP
Q521, 522 MS LEVEL DET
IC403 BU4094BCF SHIFT REGISTER
IC402 BU4094BCF SHIFT REGISTER
LED 407～414 LED 420～423
LED 401～406
Q504, 506～508 MVR MOTOR DRIVE
MVR741 MOTOR
DECK 1 PH
DECK 2 RPH
AZIMUTH ADJ
IC301 HA12185NT DECK IC
Q351 REC/PB SWITCH
REC/PB FREQ RESPONSE ADJ SFR451
L451 BIAS OSC TRANS
Q453 BIAS SWITCH
BIAS OSC Q451, 452
IC401 BU4094BF SHIFT REGISTER
IC404 BU4094BF SHIFT REGISTER
LED 451～456 LED 424～427
Q401 Q402
M1 DECK MOTOR
SFR1 SPEED ADJ
IC2 LB9051A
IC1 LB9051A
MOTOR DRIVE Q502
SOLENOID DRIVE Q501 Q503
Q330 KEY SCAN SW
FL101 DISPLAY
PT1 POWER TRANSFORMER
AC230V 50HZ
WH101 W101

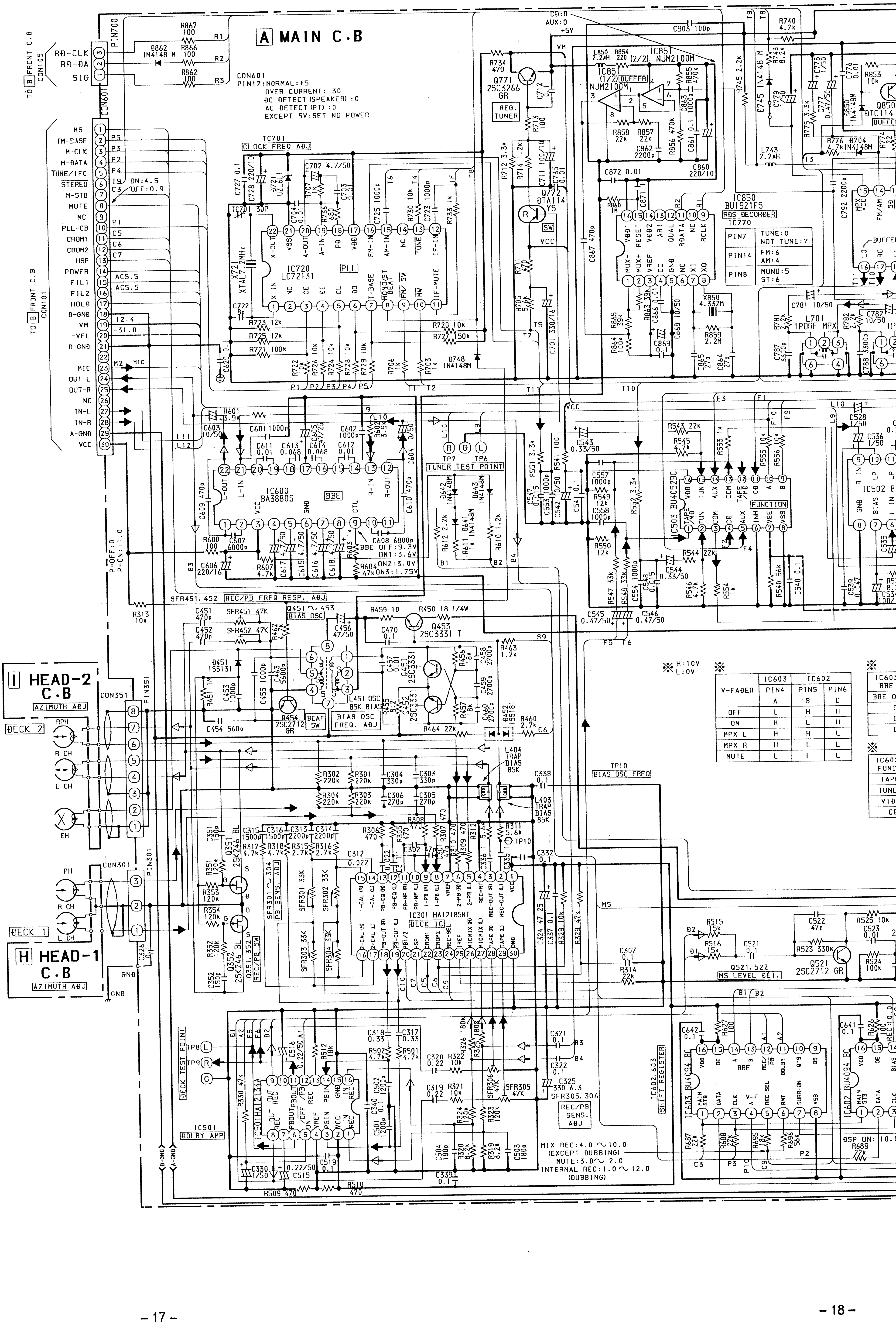
BLOCK DIAGRAM – 3 (MAIN / FRONT : V)


A MAIN C.B (1/2)
ANTENNA
J801
FM 75 Ω
AM LOOP
TUNER BLOCK
IC720 LC72131D
IC770 LA1836L
FUNC.A
IC503 BU4052BC
FUNCTION
IC502 BA3836
VOCAL FADER
TP6 TP7
BBE CONTROL
B FRONT C.B (1/3)
J621 MIC2
J601 MIC1
IC602 NJM4558HD
MIC AMP
MIC AGC
VR601
DIGITAL ECHO
MIC MIXING
VIDEO/AUX IN
J652
VR651
VIDEO/AUX INPUT LEVEL
CD MECHANISM 4ZG-1A 3CD C.B (1/2)
H HEAD-1 C.B
DECK 1
AZIMUTH ADJ
I HEAD-2 C.B
DECK 2
IC501 HA12134A
DOLBY AMP
IC602 BU4094BCF
SHIFT REGISTER
IC603 BU4094BCF
SHIFT REGISTER
Q521, 522
MS LEVEL DET
IC301 HA12185NT
DECK IC
Q351
REC/PB SWITCH
REC/PB FREQ RESPONSE ADJ
SFR451
L451 BIAS OSC TRANS
Q453 BIAS SWITCH
BIAS OSC Q451, 452
B FRONT C.B (2/2)
IC650 M65846FP-600D
DSP
D KEY C.B
S349～353
KEY MATRIX
S301～305
S321～328
S341～348
IC202 GP1U-281X
REMOTE CONTROL SENSOR
IC403 BU4094BCF
SHIFT REGISTER
LED 407～414
LED 420～423
POWER
IC402 BU4094BCF
SHIFT REGISTER
LED 401～406
Q504, 506～508
MVR MOTOR DRIVE
C MVR C.B (1/2)
MVR741 MOTOR
IC401 BU4094BF
SHIFT REGISTER
IC404 BU4094BF
SHIFT REGISTER
LED 451～456
LED 424～427
Q401
Q402
M1 DECK MOTOR
G DECK C.B
MOTOR DRIVE
Q502
Q501
Q503
SOLENOID DRIVE
IC2 LB9051A
IC1 LB9051A
ROTATED DET
MOTOR HI SPEED SW
SFR1 SPEED ADJ
CD MECHANISM 4ZG-1A 3CD C.B (2/2)
C MVR C.B
MVR741 VOLUME
IC701 BA3842F
ELECTRONIC GRAPHIC EQUALIZER T-BASS
Q202 CLOCK SHIFTER
IC380 BA3834S
SPECTRUM ANALYZER BPF
IC201 LC866432V 5A45
MICRO COMPUTER
X201 5.76MHz
Q421
Q203
Q201 RESET TRIGGER
Q330 KEY SCAN SW
FL101 DISPLAY
A MAIN C.B (2/2)
IC220 STK419-110
POWER AMP
MUTE Q203 Q221 Q223
OVER LOAD DET
Q107, 108, 117
PHONES
J254
SPEAKERS
Q207, 208
T-BASS ON/OFF
Q250 SURROUND DRIVE SW
RY102
J253
SUPER WOOFER
SURROUND SPEAKERS
TEMPERTURE DET
Q241, 242 TH241
Q111 RESET
Q110, 114 AC DET
Q108, 109 AC DET
RECT D101
RY101
Q102, 112 REG
Q106, Q107, 105 VINTAGE TRIPLER COMMUTATION
Q101, 103, 104, 105 CONTROL VOLT REG
Q106 +B SWITCH
E AC C.B
PT1 POWER TRANSFORMER
F PT C.B
AC230V 50HZ

WIRING – 1 (MAIN : EZ)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
A MAIN C.B
TO B FRONT C.B
1 2 3
CON105
CON700
FROM I HEAD-2 C.B
CON351
1 3 5 7 8
FROM H HEAD-1 C.B
CON301
1 3
TO B FRONT C.B
CON101
CON601
J801
ANTENNA
FM 75Ω
MW/LW
VR651
VIDEO/AUX INPUT LEVEL
J652
R L
VIDEO /AUX
W604
CON5 FROM 3CD C.B
TO CON604
J253
SURROUND SPEAKERS
SPEAKER IMP:16Ω+16Ω
J253
SUPER WOOFER
WH102
TO E AC C.B
YEL
W101
J254
SPEAKERS
SPEAKER IMP:6Ω
J252
PHONES
IC301
IC501
IC502
IC503
IC600
IC602
IC603
IC220
IC850

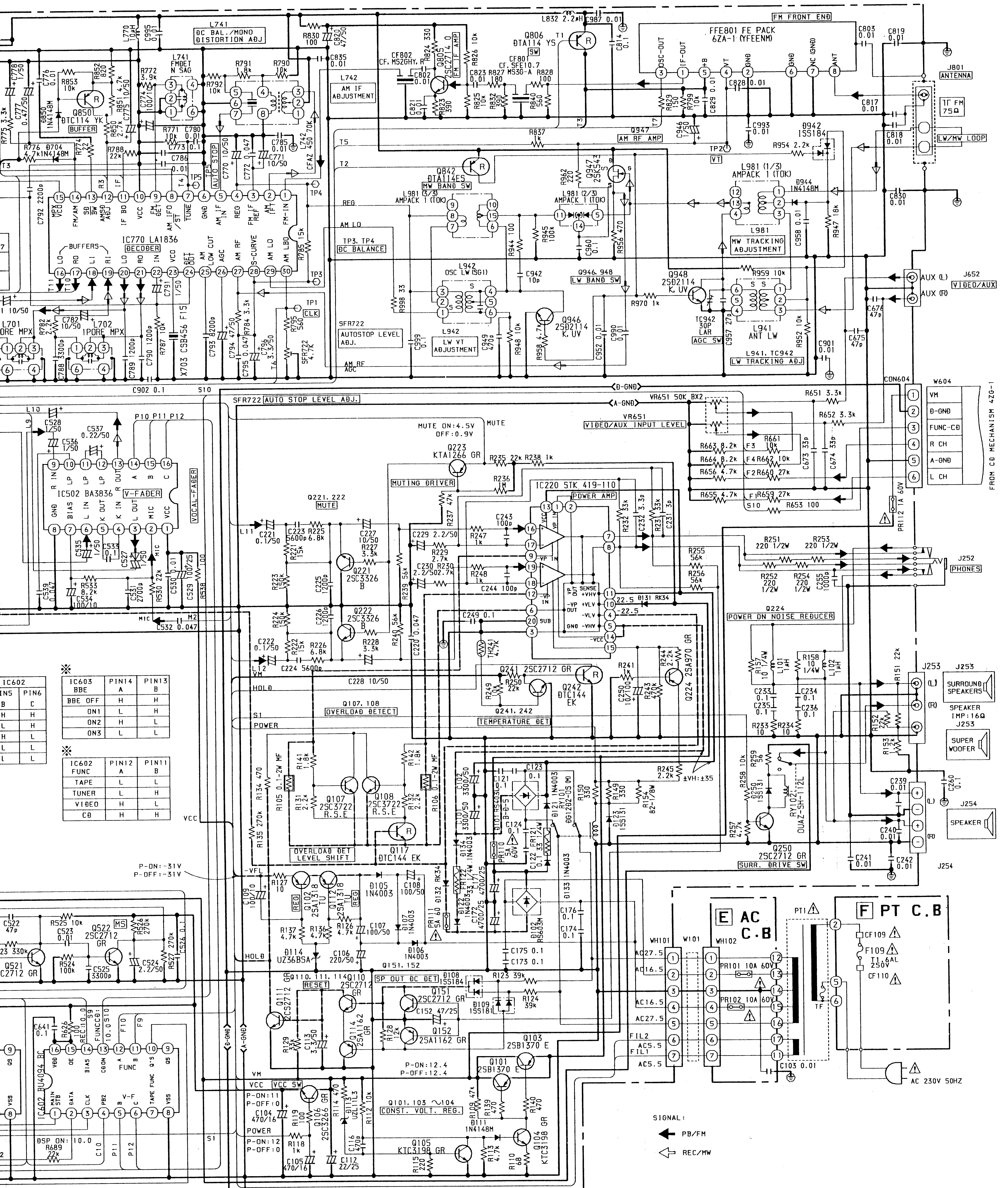
SCHEMATIC DIAGRAM – 1 (MAIN : EZ)


A MAIN C·B
TO B FRONT C.B CON105
RD-CLK
RD-DA
SIG
CON601
PIN700
R867 100
R866 100
R862 100
D862 1N4148 M
CON601
PIN17:NORMAL:+5
OVER CURRENT:-30
DC DETECT (SPEAKER):0
AC DETECT (PT):0
EXCEPT 5V:SET NO POWER
TO B FRONT C.B CON101
MS
TM-CASE
M-CLK
M-DATA
TUNE/IFC
STEREO
M-STB
MUTE
NC
PLL-CB
CROM1
CROM2
HSP
POWER
FIL1
FIL2
HOLD
D-GND
VM
-VFL
D-GND
MIC
OUT-L
OUT-R
NC
IN-L
IN-R
A-GND
VCC
ON:4.5
OFF:0.9
AC5.5
12.4
-31.0
TC701 CLOCK FREQ ADJ
IC720 LC72131
PLL
X721 XTAL7.2MHz
Q771 2SC3266 GR
REG. TUNER
Q772 DTA114 YS
SW
IC851 NJM2100M
BUFFER
IC850 BU1921FS
RDS DECORDER
IC770
PIN7 TUNE:0 NOT TUNE:7
PIN14 FM:6 AM:4
PIN8 MONO:5 ST:6
X850 4.332M
Q850 DTC114
L701 1PORE MPX
IC600 BA3880S
BBE
BBE OFF:9.3V ON1:3.6V ON2:3.0V ON3:1.75V
TP7 TP6 TUNER TEST POINT
IC503 BU4052BC
FUNCTION
IC502
P-OFF:0
P-ON:11.0
SFR451, 452 REC/PB FREQ RESP. ADJ
Q451~453 BIAS OSC
Q453 2SC3331 T
Q451 2SC3331
Q452 2SC3331
L451 OSC 85K BIAS
BIAS OSC FREQ. ADJ
Q454 2SC2712 GR
BEAT SW
L404 TRAP BIAS 85K
L403 TRAP BIAS 85K
TP10 BIAS OSC FREQ
I HEAD-2 C·B
AZIMUTH ADJ
DECK 2
RPH
R CH
L CH
EH
CON351
PIN351
CON301
PIN301
PH
DECK 1
H HEAD-1 C·B
AZIMUTH ADJ
GND
Q351 2SK246 BL
Q352 2SK246 BL
SFR301~304 PB SENS. ADJ
Q351, 352 REC/PB SW
IC301 HA12185NT
DECK IC
MS
Q521, 522 MS LEVEL DET.
Q521 2SC2712 GR
TP8 L
TP9 R
G
DECK TEST POINT
IC501 HA12134A
IC501 DOLBY AMP
SFR305, 306 REC/PB SENS. ADJ
MIX REC:4.0~10.0
(EXCEPT DUBBING)
MUTE:3.0~2.0
INTERNAL REC:1.0~12.0
(DUBBING)
IC602, 603 SHIFT REGISTER
IC603 BU4094 BC
IC602 BU4094 BC
DSP ON:10.0
D-GND
A-GND

※ H:10V
L:0V

※

V-FADER	IC603	IC602	
	PIN4 A	PIN5 B	PIN6 C
OFF	L	H	H
ON	H	L	H
MPX L	H	H	L
MPX R	H	L	L
MUTE	L	L	L


FM FRONT END
FFE801 FE PACK 6ZA-1 (YFEENM)
J801 ANTENNA
1Γ FM 75Ω
LW/MW LOOP
L741 DC BAL./MONO DISTORTION ADJ
L741 FMDET N SAG
L742 AM IF ADJUSTMENT
Q806 DTA114 YS SW
Q805 2SC2714 O FM IF AMP
Q947 AM RF AMP
Q842 DTA114ES MW BAND SW
IC770 LA1836 DECODER
BUFFERS
AUTO STOP
TP3, TP4 DC BALANCE
SFR722 AUTOSTOP LEVEL ADJ.
L942 OSC LW (SG1)
L942 LW VT ADJUSTMENT
Q946, 948 LW BAND SW
Q946 2SD2114 K, UV
Q948 2SD2114 K, UV
L981 (1/3) AMPACK 1 (TOK)
L981 MW TRACKING ADJUSTMENT
L941 ANT LW
L941, TC942 LW TRACKING ADJ
AGC SW
X703 CSB456 F15
L701 ORE MPX
L702 1PORE MPX
J652 AUX (L) AUX (R) VIDEO/AUX
CON604
W604
FROM CD MECHANISM 4ZG-1
SFR722 AUTO STOP LEVEL ADJ.
VR651 50K BX2
VR651 VIDEO/AUX INPUT LEVEL
IC502 BA3836 V-FADER
VOCAL-FADER
MUTE ON:4.5V OFF:0.9V
Q223 KTA1266 GR MUTING DRIVER
Q221, 222 MUTE
IC220 STK 419-110 POWER AMP
J252 PHONES
Q224 POWER ON NOISE REDUCER
Q241 2SC2712 GR
Q242 DTC144 EK
Q241, 242 TEMPERATURE DET
Q107, 108 OVERLOAD DETECT
Q107 2SC3722 R.S.E
Q108 2SC3722 R.S.E
Q117 DTC144 EK
OVERLOAD DET LEVEL SHIFT
J253 SURROUND SPEAKERS
SPEAKER IMP:16Ω
SUPER WOOFER
J254 SPEAKER
Q250 2SC2712 GR SURR. DRIVE SW
RY101 QUAZ-SH-112L
±VH:±35
P-ON:-31V P-OFF:-31V
Q102 2SA1318 TU
Q112 2SA1318 TU
REG
Q151, 152
SP OUT DC DET
Q110, 111, 114
RESET
Q151 2SC2712 GR
Q152 2SA1162 GR
Q103 2SB1370 E
Q101 2SB1370 E
VCC SW
Q106 2SC3266 GR
Q101, 103 ~104 CONST. VOLT. REG.
Q105 KTC3198 GR
Q104 KTC3198 GR
P-ON:12.4 P-OFF:12.4
P-ON:11 P-OFF:0
P-ON:12 P-OFF:0
DSP ON: 10.0
IC602 BU4094 BC
MS
Q521 2SC2712 GR
Q522 2SC2712 GR
E AC C.B
F PT C.B
PR101 10A 60V
PR102 10A 60V
PT1
TF
F109 T1.6AL 250V
CF109 CF110
C103 0.01
AC 230V 50HZ
SIGNAL:
PB/FM
REC/MW

IC602	
IN5	PIN6
B	C
H	H
L	H
H	L
L	L
L	L

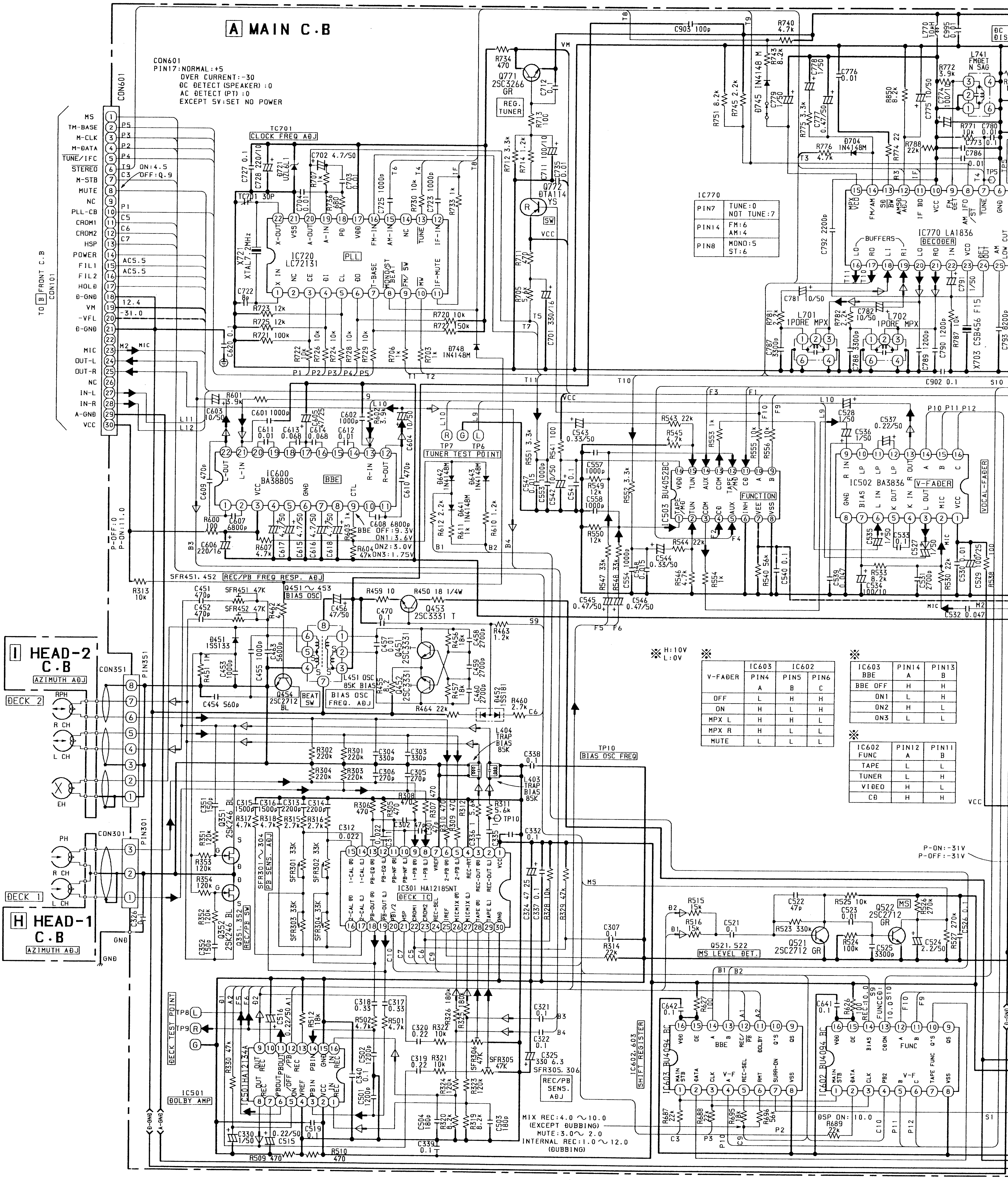
※

IC603 BBE	PIN14 A	PIN13 B
BBE OFF	H	H
ON1	L	H
ON2	H	L
ON3	L	L

※

IC602 FUNC	PIN12 A	PIN11 B
TAPE	L	L
TUNER	L	H
VIDEO	H	L
CD	H	H

SCHEMATIC DIAGRAM – 2 (MAIN : V)


A MAIN C.B
CON601
PIN17:NORMAL:+5
OVER CURRENT:-30
DC DETECT (SPEAKER):0
AC DETECT (PT):0
EXCEPT 5V:SET NO POWER
TO B FRONT C.B CON101
MS
TM-BASE
M-CLK
M-DATA
TUNE/IFC
STEREO
M-STB
MUTE
NC
PLL-CB
CROM1
CROM2
HSP
POWER
FIL1
FIL2
HOLD
D-GND
VM
-VFL
D-GND
MIC
OUT-L
OUT-R
NC
IN-L
IN-R
A-GND
VCC
IC720 LC72131
PLL
CLOCK FREQ ADJ
REG. TUNER
IC600 BA3880S
BBE
TUNER TEST POINT
IC770 LA1836
DECODER
BUFFERS
IC503 BU4052BC
FUNCTION
IC502 BA3836
V-FADER
VOCAL-FADER
REC/PB FREQ RESP. ADJ
BIAS OSC
BEAT SW
BIAS OSC FREQ. ADJ
TP10
BIAS OSC FREQ
I HEAD-2 C.B
AZIMUTH ADJ
DECK 2
H HEAD-1 C.B
AZIMUTH ADJ
DECK 1
IC301 HA12185NT
DECK IC
PB SENS. ADJ
REC/PB SW
MS LEVEL DET.
DECK TEST POINT
IC501 DOLBY AMP
REC/PB SENS. ADJ
MIX REC:4.0 ~10.0
(EXCEPT DUBBING)
MUTE:3.0 ~ 2.0
INTERNAL REC:1.0 ~ 12.0
(DUBBING)
IC602,603 SHIFT REGISTER
IC603 BU4094 BC
IC602 BU4094 BC
DSP ON:10.0
P-ON:-31V
P-OFF:-31V

IC770

PIN7	TUNE:0 NOT TUNE:7
PIN14	FM:6 AM:4
PIN8	MONO:5 ST:6

※ H:10V
L:0V

※

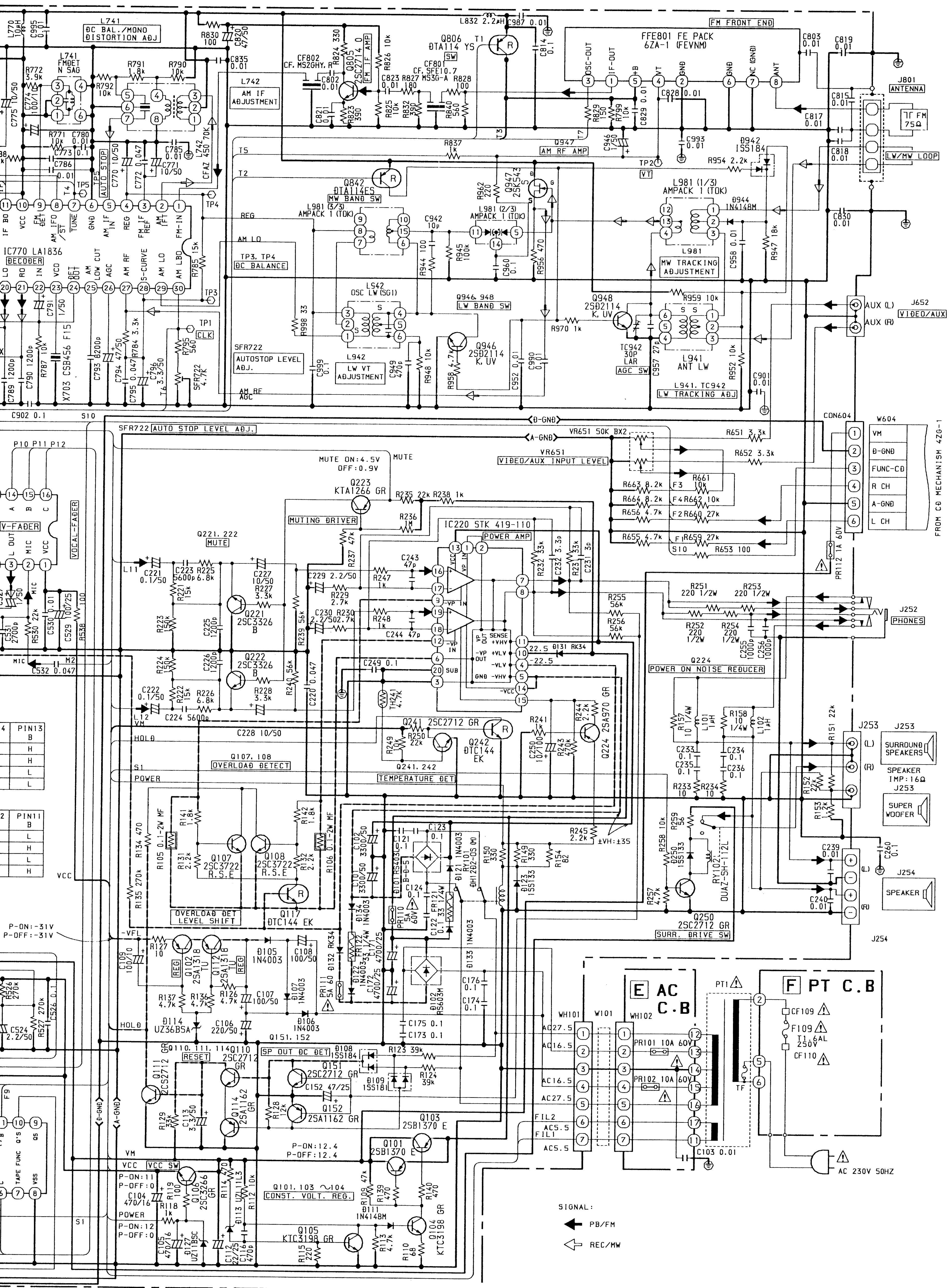
V-FADER	IC603	IC602	
	PIN4 A	PIN5 B	PIN6 C
OFF	L	H	H
ON	H	L	H
MPX L	H	H	L
MPX R	H	L	L
MUTE	L	L	L

※

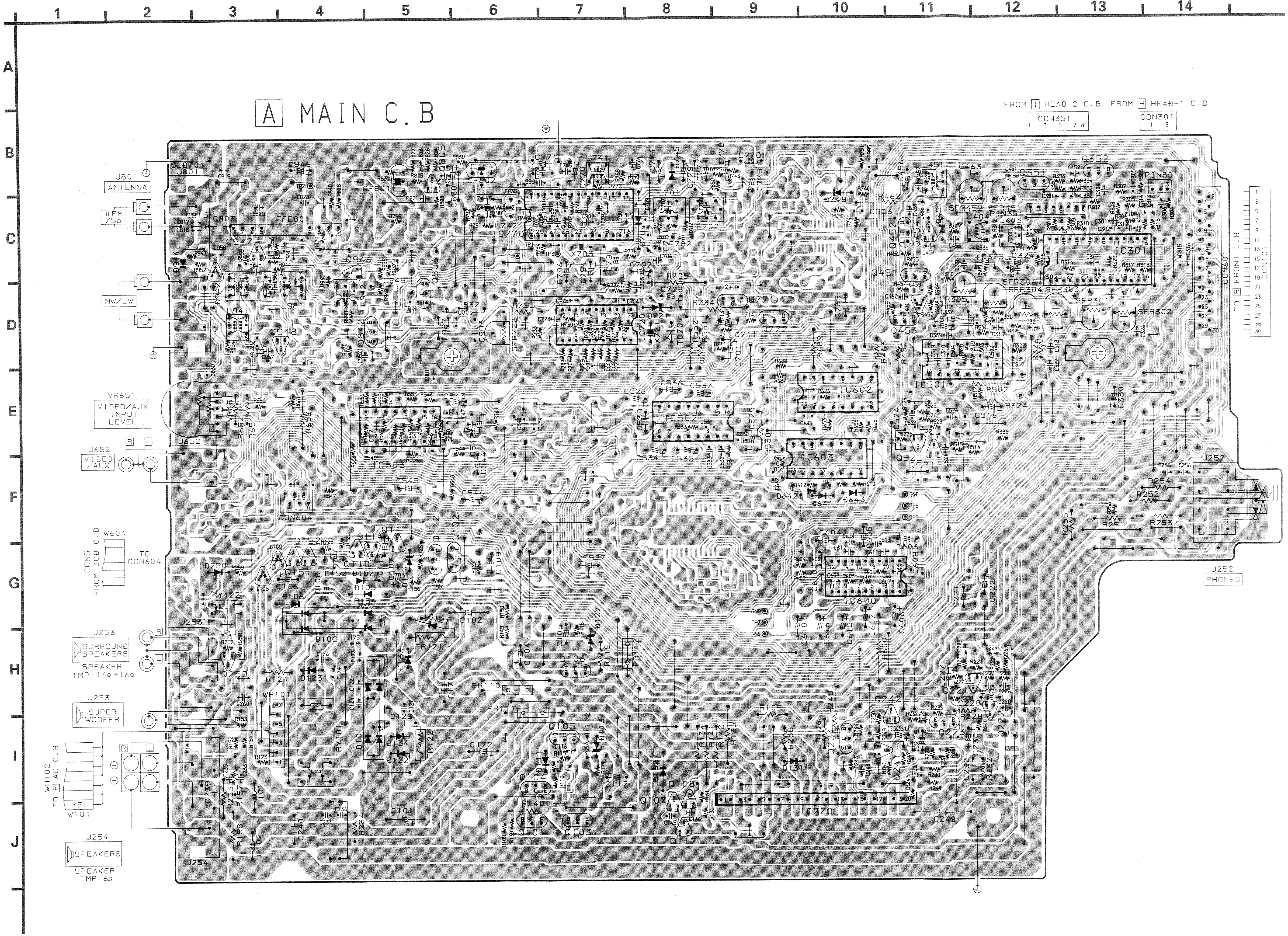
IC603 BBE	PIN14 A	PIN13 B
BBE OFF	H	H
ON1	L	H
ON2	H	L
ON3	L	L

※

IC602 FUNC	PIN12 A	PIN11 B
TAPE	L	L
TUNER	L	H
VIDEO	H	L
CD	H	H


FM FRONT END
FFE801 FE PACK
6ZA-1 (FEVNM)
DC BAL./MONO DISTORTION ADJ
L741 FMDET N SAG
L742 AM IF ADJUSTMENT
FM IF AMP
SW
AM RF AMP
VT
AMPACK 1 (TDK)
MW BAND SW
L981 MW TRACKING ADJUSTMENT
IC770 LA1836
DECODER
TP3, TP4 DC BALANCE
AUTO STOP
CLK
SFR722 AUTOSTOP LEVEL ADJ.
L942 LW VT ADJUSTMENT
LW BAND SW
AGC SW
L941 ANT LW
L941, TC942 LW TRACKING ADJ
J801 ANTENNA
FM 75Ω
LW/MW LOOP
J652 VIDEO/AUX
AUX (L)
AUX (R)
SFR722 AUTO STOP LEVEL ADJ.
VR651 50K BX2
VR651 VIDEO/AUX INPUT LEVEL
CON604
W604
VM
D-GND
FUNC-CD
R CH
A-GND
L CH
FROM CD MECHANISM 4ZG-1
V-FADER
VOCAL-FADER
MUTE ON:4.5V OFF:0.9V
MUTE
Q223 KTA1266 GR
MUTING DRIVER
Q221, 222 MUTE
IC220 STK 419-110
POWER AMP
J252 PHONES
Q224 POWER ON NOISE REDUCER
Q241 2SC2712 GR
Q242 DTC144 EK
Q241, 242 TEMPERATURE DET
Q107, 108 OVERLOAD DETECT
OVERLOAD DET LEVEL SHIFT
Q117 DTC144 EK
J253 SURROUND SPEAKERS
SPEAKER IMP:16Ω
J253 SUPER WOOFER
J254 SPEAKER
RY102 DUAZ-SH-112L
Q250 2SC2712 GR
SURR. DRIVE SW
P-ON:-31V P-OFF:-31V
HOLD
S1
POWER
VCC
Q110, 111, 114 RESET
SP OUT DC DET
Q151, 152
E AC C.B
F PT C.B
WH101
W101
WH102
PR101 10A 60V
PR102 10A 60V
PT1
CF109
F109 T1.6AL 250V
CF110
AC 230V 50HZ
P-ON:12.4 P-OFF:12.4
VCC SW
P-ON:11 P-OFF:0
P-ON:12 P-OFF:0
Q101, 103 ~104 CONST. VOLT. REG.
SIGNAL:
PB/FM
REC/MW

WIRING – 2 (MAIN : V)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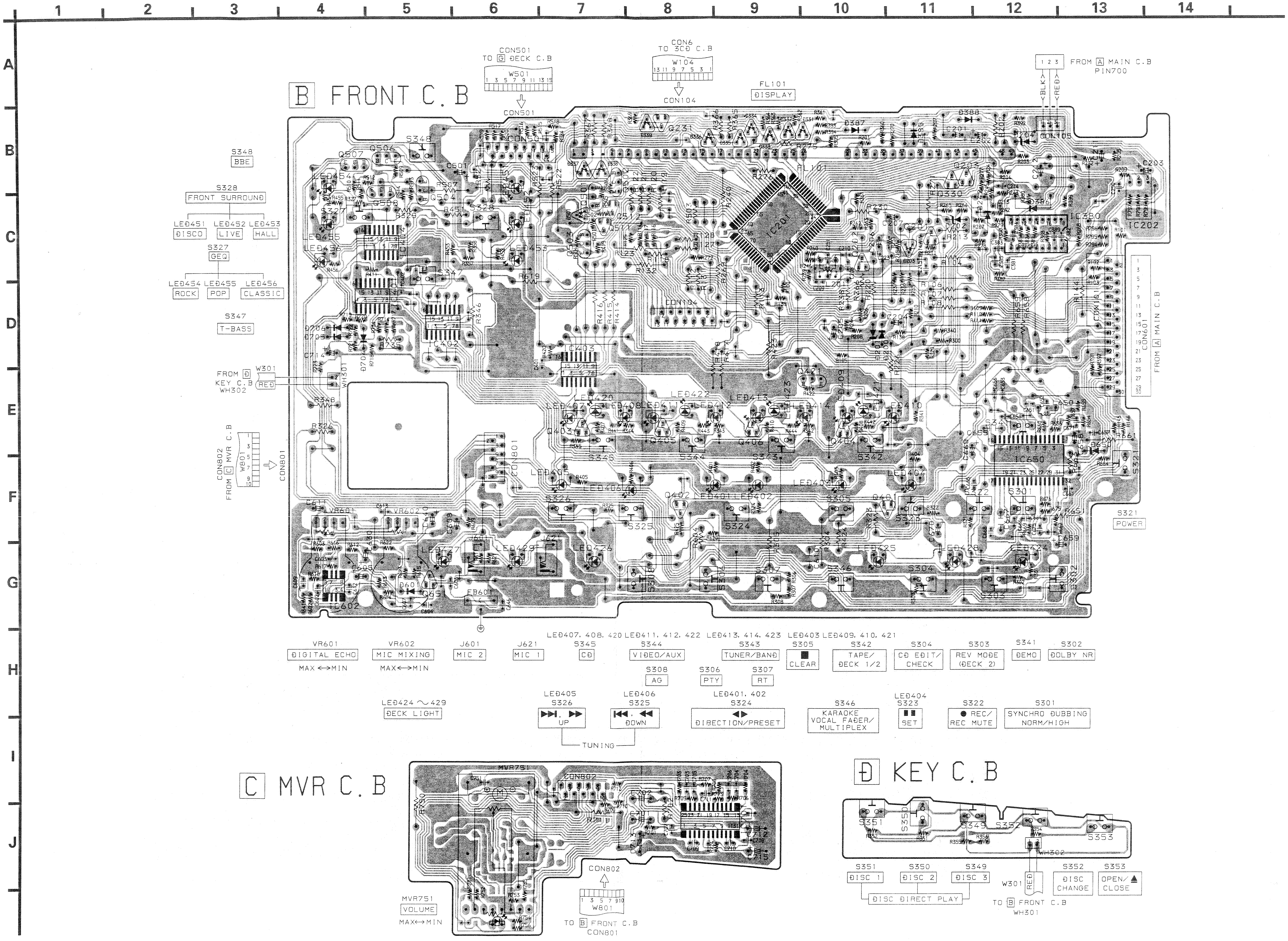
H
I
J
A MAIN C.B
FROM I HEAD-2 C.B
FROM H HEAD-1 C.B
CON351
1 3 5 7 8
CON301
1 3
J801
ANTENNA
FM 75Ω
MW/LW
VR651
VIDEO/AUX INPUT LEVEL
J652
R L
VIDEO /AUX
W604
CON5 FROM 3CD C.B
TO CON604
J253
SURROUND SPEAKERS
SPEAKER IMP : 16Ω+16Ω
J253
SUPER WOOFER
WH102
TO E AC C.B
YEL
W101
J254
SPEAKERS
SPEAKER IMP : 6Ω
TO B FRONT C.B
CON601
CON101
J252
PHONES
IC301
IC501
IC502
IC503
IC602
IC603
IC600
IC220
IC701
FFE801
CF801
CF802
X701
X703
L741
L742
L451
L981
L941
Q352
Q351
Q451
Q452
Q453
Q521
Q522
Q771
Q772
Q805
Q806
Q842
Q946
Q947
Q948
Q101
Q103
Q104
Q105
Q106
Q107
Q108
Q110
Q111
Q112
Q117
Q151
Q152
Q221
Q222
Q223
Q224
Q242
Q250
RY101
RY102
WH101
FR121
FR122
PR110
PR111
PR112
CON604
J253
J254
SFR301
SFR302
SFR303
SFR304
SFR305
SFR306
SFR452
SFR722
PIN301
GND
TP6
TP7
TP8
TP9

WIRING – 3 (FRONT : EZ)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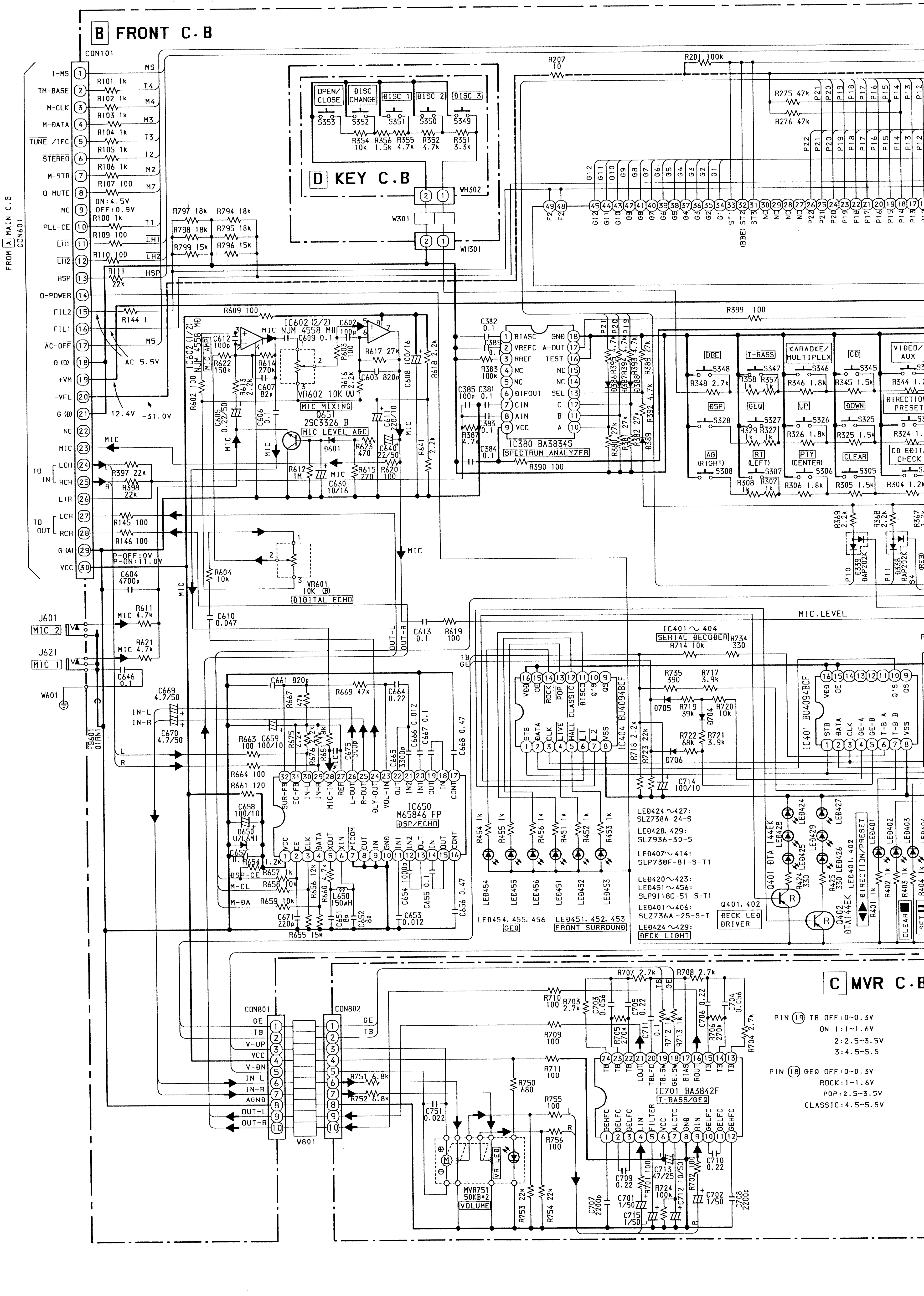
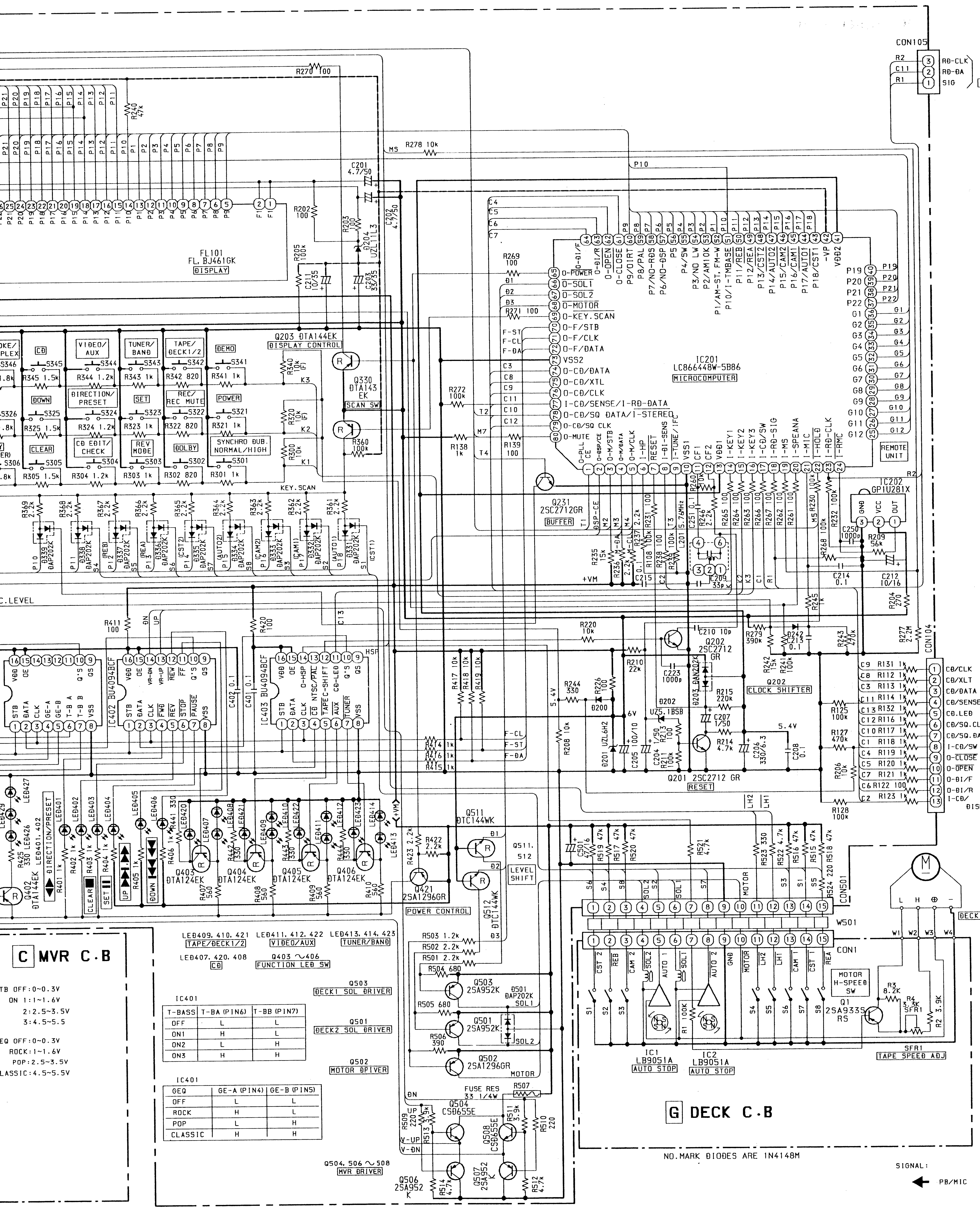
H
I
J
B FRONT C.B
CON501
TO G DECK C.B
W501
CON501
CON6
TO 3CD C.B
W104
CON104
FL101
DISPLAY
FROM A MAIN C.B
PIN700
BLK
RED
CON105
IC201
IC202
IC380
IC650
IC402
IC403
IC602
CON601
FROM A MAIN C.B
CON104
CON801
S348
BBE
S328
FRONT SURROUND
LED451
DISCO
LED452
LIVE
LED453
HALL
S327
GEQ
LED454
ROCK
LED455
POP
LED456
CLASSIC
S347
T-BASS
FROM D KEY C.B WH302
W301
RED
CON802
FROM C MVR C.B
W801
CON801
S321
POWER
VR601
DIGITAL ECHO
MAX ⟷ MIN
VR602
MIC MIXING
MAX ⟷ MIN
J601
MIC 2
J621
MIC 1
LED407, 408, 420
S345
CD
LED411, 412, 422
S344
VIDEO/AUX
LED413, 414, 423
S343
TUNER/BAND
LED403
S305
■
CLEAR
LED409, 410, 421
S342
TAPE/
DECK 1/2
S304
CD EDIT/
CHECK
S303
REV MODE
(DECK 2)
S341
DEMO
S302
DOLBY NR
S308
AG
S306
PTY
S307
RT
LED424 ∼ 429
DECK LIGHT
LED405
S326
▶▶I, ▶▶
UP
LED406
S325
I◀◀, ◀◀
DOWN
TUNING
LED401, 402
S324
◀▶
DIRECTION/PRESET
S346
KARAOKE
VOCAL FADER/
MULTIPLEX
LED404
S323
▮▮
SET
S322
● REC/
REC MUTE
S301
SYNCHRO DUBBING
NORM/HIGH
C MVR C.B
MVR751
CON802
W801
TO B FRONT C.B
CON801
MVR751
VOLUME
MAX ⟷ MIN
D KEY C.B
S351
S350
S349
S352
S353
WH302
S351
DISC 1
S350
DISC 2
S349
DISC 3
DISC DIRECT PLAY
W301
RED
TO B FRONT C.B
WH301
S352
DISC
CHANGE
S353
OPEN/▲
CLOSE

SCHEMATIC DIAGRAM－3 (FRONT : EZ)



B FRONT C.B
CON101
FROM A MAIN C.B CON601
I-MS
TM-BASE
M-CLK
M-DATA
TUNE /IFC
STEREO
M-STB
O-MUTE
NC
PLL-CE
LH1
LH2
HSP
O-POWER
FIL2
FIL1
AC-OFF
G (D)
+VM
-VFL
MIC
TO IN LCH
RCH
L+R
TO OUT LCH
RCH
G (A)
VCC
ON:4.5V
OFF:0.9V
AC 5.5V
12.4V
-31.0V
P-OFF:0V
P-ON:11.0V
D KEY C.B
OPEN/CLOSE
DISC CHANGE
DISC 1
DISC 2
DISC 3
WH302
W301
WH301
IC602 (2/2) MIC NJM 4558 MD
IC602 (1/2) NJM 4558 MD
MIC AMP
VR602 10K (A)
MIC MIXING
Q651 2SC3326 B
MIC LEVEL AGC
D601
VR601 10K (B)
DIGITAL ECHO
J601 MIC 2
J621 MIC 1
W601
FB601
IN-L
IN-R
IC650 M65846 FP
DSP/ECHO
D650 UZL6M1
DSP-CE
M-CL
M-DA
L650 150μH
IC380 BA3834S
SPECTRUM ANALYZER
BIASC
VREFC
RREF
DIFOUT
CIN
AIN
A-OUT
TEST
SEL
BBE
T-BASS
KARAOKE/MULTIPLEX
CD
VIDEO/AUX
DSP
GEQ
UP
DOWN
DIRECTION PRESET
AG (RIGHT)
RT (LEFT)
PTY (CENTER)
CLEAR
CD EDIT CHECK
D339 DAP202K
D338 DAP202K
MIC.LEVEL
IC401～404
SERIAL DECODER
IC404 BU4094BCF
IC401 BU4094BCF
ROCK
POP
LIVE
HALL
CLASSIC
DISCO
LED424～427: SLZ738A-24-S
LED428, 429: SLZ936-30-S
LED407～414: SLP738F-81-S-T1
LED420～423:
LED451～456: SLP9118C-51-S-T1
LED401～406: SLZ736A-25-S-T
LED424～429: DECK LIGHT
LED454, 455, 456 GEQ
LED451, 452, 453 FRONT SURROUND
Q401, 402 DECK LED DRIVER
Q401 DTA 144EK
Q402 DTA144EK
DIRECTION/PRESET
CLEAR
C MVR C.B
CON801
CON802
GE
TB
V-UP
VCC
V-DN
IN-L
IN-R
AGND
OUT-L
OUT-R
W801
MVR751 50KB*2 VOLUME
VR LED
IC701 BA3842F
T-BASS/GEQ
PIN 19 TB OFF:0~0.3V
ON 1:1~1.6V
2:2.5~3.5V
3:4.5~5.5
PIN 18 GEQ OFF:0~0.3V
ROCK:1~1.6V
POP:2.5~3.5V
CLASSIC:4.5~5.5V



CON105
R0-CLK
R0-DA
SIG
FROM A MAIN C.B PIN700
FL101
FL BJ461GK
DISPLAY
Q203 DTA144EK
DISPLAY CONTROL
Q330 DTA143EK
SCAN SW
IC201
LC866448W-5B86
MICROCOMPUTER
Q231 2SC2712GR
BUFFER
IC202 GP1U281X
REMOTE UNIT
Q202 2SC2712GR
CLOCK SHIFTER
Q201 2SC2712 GR
RESET
CON104
CD/CLK
CD/XLT
CD/DATA
CD/SENSE
CD.LED
CD/SQ.CLK
CD/SQ.DATA
I-CD/SW
O-CLOSE
O-OPEN
O-DI/F
O-DI/R
I-CD/DISH
TO 3CD C.B CON6
IC402 BU4094BCF
IC403 BU4094BCF
Q402 DTA144EK
Q403 DTA124EK
Q404 DTA124EK
Q405 DTA124EK
Q406 DTA124EK
Q421 2SA1296GR
POWER CONTROL
Q511 DTC144WK
Q512 DTC144WK
Q511, 512
LEVEL SHIFT
Q503 2SA952K
Q501 2SA952K
Q502 2SA1296GR
Q504 CSB655E
Q508 CSB655E
Q506 2SA952K
Q507 2SA952K
FUSE RES 33 1/4W
CON501
W501
CON1
M1
DECK MOTOR
MOTOR H-SPEED SW
Q1 2SA933S RS
SFR1
TAPE SPEED ADJ
IC1 LB9051A
AUTO STOP
IC2 LB9051A
AUTO STOP
C MVR C·B
G DECK C·B

LED409, 410, 421 TAPE/DECK1/2

LED411, 412, 422 VIDEO/AUX

LED413, 414, 423 TUNER/BAND

LED407, 420, 408 CD

Q403 ~406 FUNCTION LED SW

Q503 DECK1 SOL DRIVER

Q501 DECK2 SOL DRIVER

Q502 MOTOR DPIVER

Q504, 506 ~508 MVR DRIVER

TB OFF:0~0.3V
ON 1:1~1.6V
2:2.5~3.5V
3:4.5~5.5

EQ OFF:0~0.3V
ROCK:1~1.6V
POP:2.5~3.5V
LASSIC:4.5~5.5V

IC401

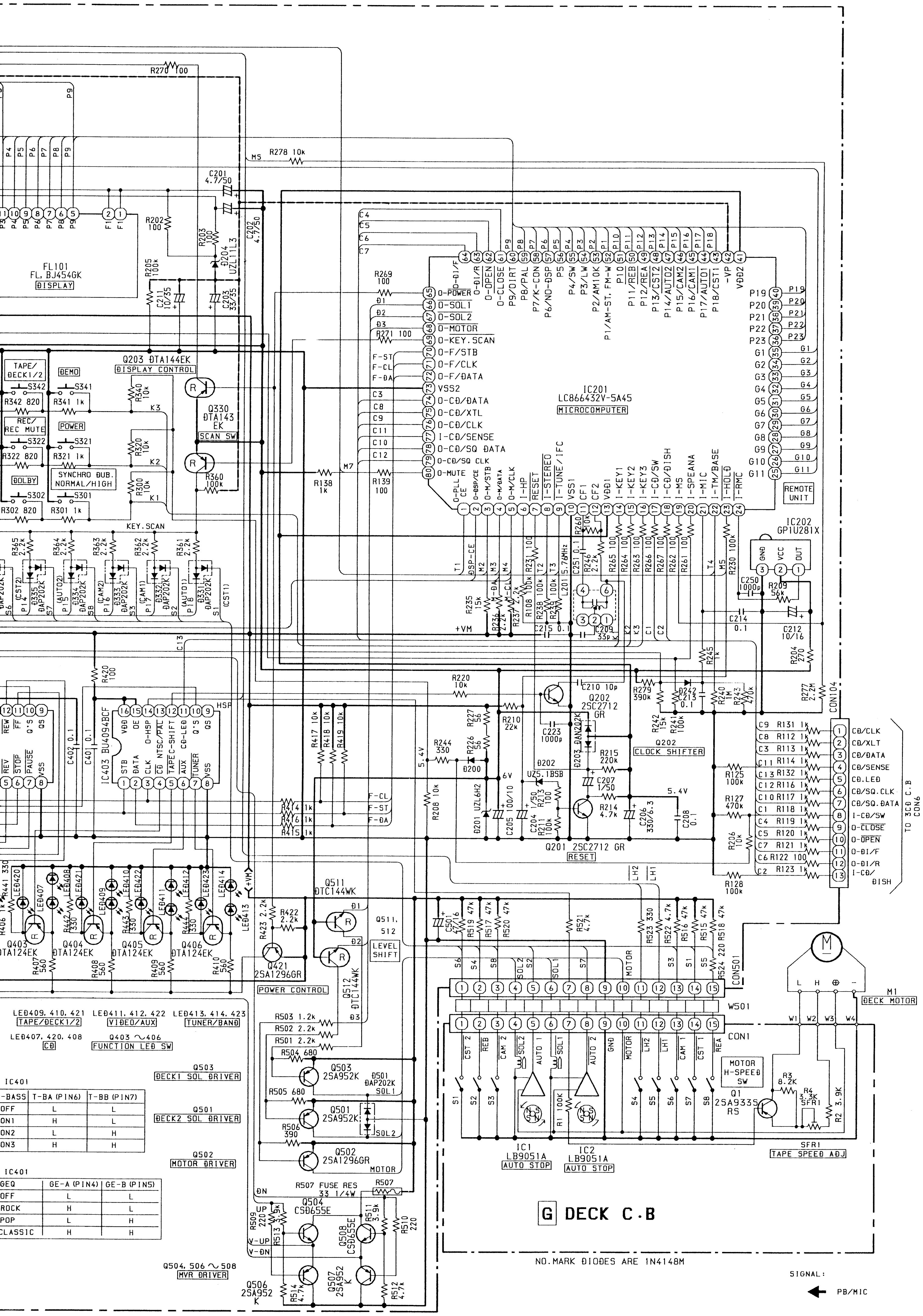
T-BASS	T-BA (PIN6)	T-BB (PIN7)
OFF	L	L
ON1	H	L
ON2	L	H
ON3	H	H

IC401

GEQ	GE-A (PIN4)	GE-B (PIN5)
OFF	L	L
ROCK	H	L
POP	L	H
CLASSIC	H	H

NO.MARK DIODES ARE 1N4148M

SIGNAL:
← PB/MIC



FL101
FL BJ454GK
DISPLAY
R270 100
R278 10k
MS
C201 4.7/50
C202 4.7/50
R202 100
R203 100
D204 UZ11L3
R205 100k
C211 10/35
C203 33/35
Q203 DTA144EK
DISPLAY CONTROL
Q330 DTA143EK
SCAN SW
R360 100k
TAPE/DECK1/2
DEMO
REC/REC MUTE
POWER
DOLBY
SYNCHRO DUB. NORMAL/HIGH
S342
S341
S322
S321
S302
S301
R342 820
R341 1k
R322 820
R321 1k
R302 820
R301 1k
R340 10k
R320 10k
R300 10k
K1
K2
K3
KEY.SCAN
R365 2.2k
R364 2.2k
R363 2.2k
R362 2.2k
R361 2.2k
D335 DAP202K
D334 DAP202K
D333 DAP202K
D332 DAP202K
D331 DAP202K
(CST2)
(AUTO2)
(CAM2)
(CAM1)
(AUTO1)
(CST1)
C13
R420 100
IC403 BU4094BCF
HSP
R417 10k
R418 10k
R419 10k
R414 1k
R416 1k
R415 1k
F-CL
F-ST
F-DA
R138 1k
R139 100
M7
IC201
LC866432V-5A45
MICROCOMPUTER
R269 100
R271 100
O-POWER
O-SOL1
O-SOL2
O-MOTOR
O-KEY.SCAN
O-F/STB
O-F/CLK
O-F/DATA
VSS2
O-CD/DATA
O-CD/XTL
O-CD/CLK
I-CD/SENSE
O-CD/SQ DATA
O-CD/SQ CLK
O-MUTE
O-PLL CE
O-DSP/CE
O-M/STB
O-M/DATA
O-M/CLK
I-HP
RESET
I-STEREO
I-TUNE/IFC
VSS1
CF1
CF2
VDD1
I-KEY1
I-KEY2
I-KEY3
I-CD/SW
I-CD/DISH
I-MS
I-SPEANA
I-MIC
I-TM/BASE
I-HOLD
I-RMC
REMOTE UNIT
IC202 GP1U281X
GND
VCC
OUT
C250 1000p
R209 56k
C214 0.1
C212 10/16
R204 270
R277 2.2M
CON104
R235 15k
+VM
C215 0.1
C209 33p
C251 0.1
R260 10k
L201 5.76MHz
R220 10k
R210 22k
C210 10p
Q202 2SC2712 GR
CLOCK SHIFTER
D203 DAN202K
R215 220k
C207 1/50
R214 4.7k
C206 330/6.3
C208 0.1
Q201 2SC2712 GR
RESET
R244 330
D200
R227 56
R226 56
R208 10k
D201 UZ6H2
C205 100/10
C204 1/50
R211 100k
R213 100
D202 UZ5.1BSB
C223 1000p
R279 390k
D242
C213 0.1
R242 15k
R241 100k
R240 1M
R243 470k
R245 1k
5.4V
6V
R125 100k
R127 470k
R206 10k
R128 100k
C9 R131 1k
C8 R112 1k
C3 R113 1k
C11 R114 1k
C13 R132 1k
C12 R116 1k
C10 R117 1k
C1 R118 1k
C4 R119 1k
C5 R120 1k
C7 R121 1k
C6 R122 100
C2 R123 1k
CD/CLK
CD/XLT
CD/DATA
CD/SENSE
CD.LED
CD/SQ.CLK
CD/SQ.DATA
I-CD/SW
O-CLOSE
O-OPEN
O-DI/F
O-DI/R
I-CD/DISH
TO 3CD C.B CON6
LH2
LH1
Q403 DTA124EK
Q404 DTA124EK
Q405 DTA124EK
Q406 DTA124EK
R407 560
R408 560
R409 560
R410 560
LED407
LED408
LED409
LED410
LED411
LED412
LED413
LED414
LED420
LED421
LED422
LED423
Q511 DTC144WK
Q512 DTC144WK
Q511, 512
LEVEL SHIFT
R422 2.2k
R423 2.2k
Q421 2SA1296GR
POWER CONTROL
LED409, 410, 421
TAPE/DECK1/2
LED411, 412, 422
VIDEO/AUX
LED413, 414, 423
TUNER/BAND
LED407, 420, 408
CD
Q403 ∿406
FUNCTION LED SW
Q503
DECK1 SOL DRIVER
Q501
DECK2 SOL DRIVER
Q502
MOTOR DRIVER
Q504, 506 ∿ 508
MVR DRIVER
R503 1.2k
R502 2.2k
R501 2.2k
R504 680
R505 680
R506 390
Q503 2SA952K
Q501 2SA952K
Q502 2SA1296GR
D501 DAP202K
SOL1
SOL2
MOTOR
R507 FUSE RES 33 1/4W
Q504 CSD655E
Q508 CSD655E
Q506 2SA952K
Q507 2SA952K
R509 220
R510 220
R511 3.9k
R512 4.7k
R513 3.9k
R514 4.7k
UP
DN
V-UP
V-DN
C501 47/16
R519 47k
R517 47k
R520 47k
R521 4.7k
R523 330
R522 4.7k
R516 47k
R515 47k
R524 220
R518 47k
CON501
W501
CON1
CST 2
REB
CAM 2
SOL2
AUTO 1
SOL1
AUTO 2
GND
MOTOR
LH2
LH1
CAM 1
CST 1
REA
S1
S2
S3
S4
S5
S6
S7
S8
R1 100k
IC1 LB9051A
AUTO STOP
IC2 LB9051A
AUTO STOP
MOTOR H-SPEED SW
R3 8.2K
R4 3.3K
SFR1
R2 3.9K
Q1 2SA933S RS
SFR1
TAPE SPEED ADJ
M1
DECK MOTOR
W1
W2
W3
W4
G DECK C.B
NO.MARK DIODES ARE 1N4148M
SIGNAL:
PB/MIC

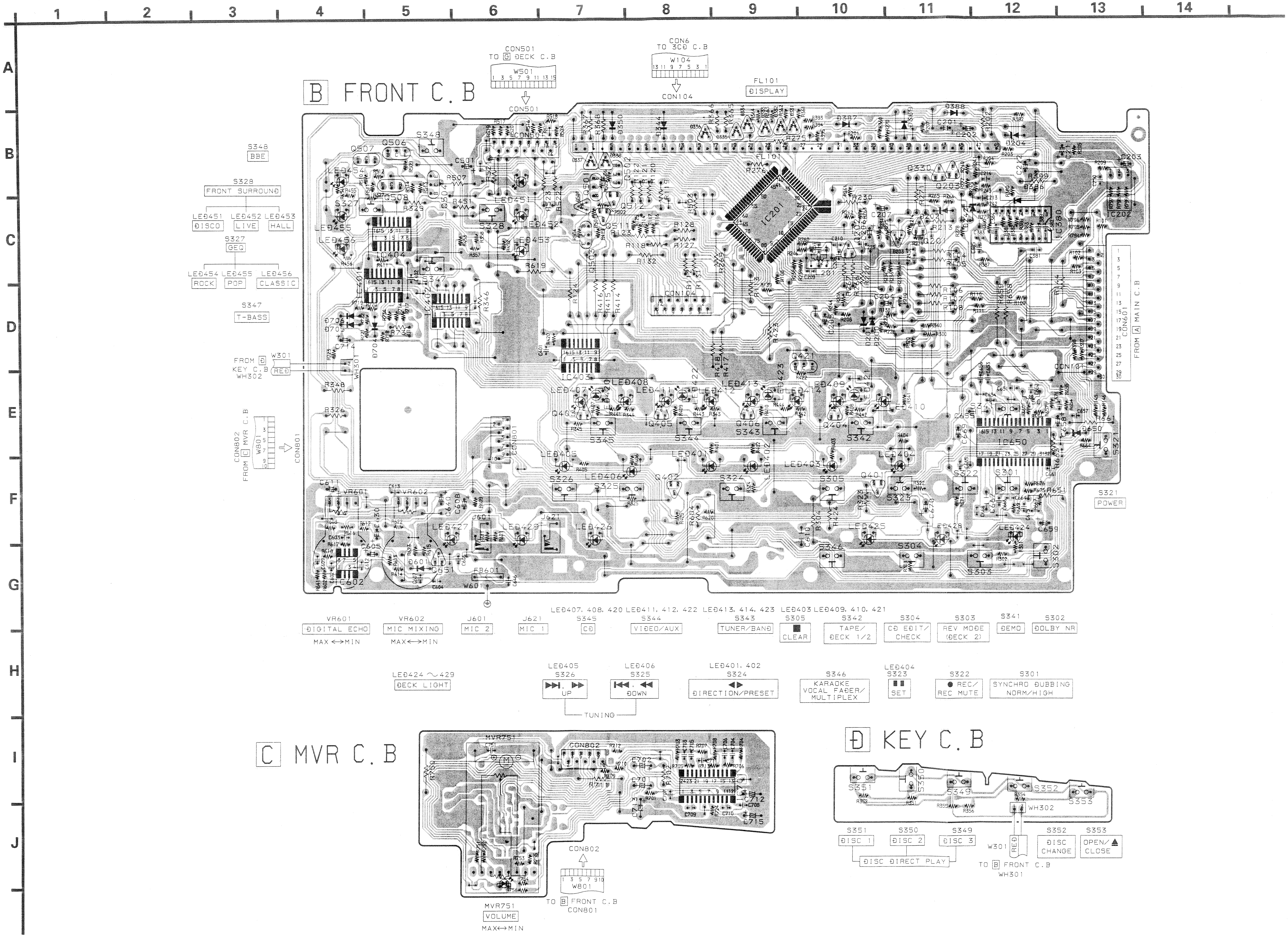
IC401

-BASS	T-BA (PIN6)	T-BB (PIN7)
OFF	L	L
ON1	H	L
ON2	L	H
ON3	H	H

IC401

GEQ	GE-A (PIN4)	GE-B (PIN5)
OFF	L	L
ROCK	H	L
POP	L	H
CLASSIC	H	H

WIRING – 4 (FRONT : V)



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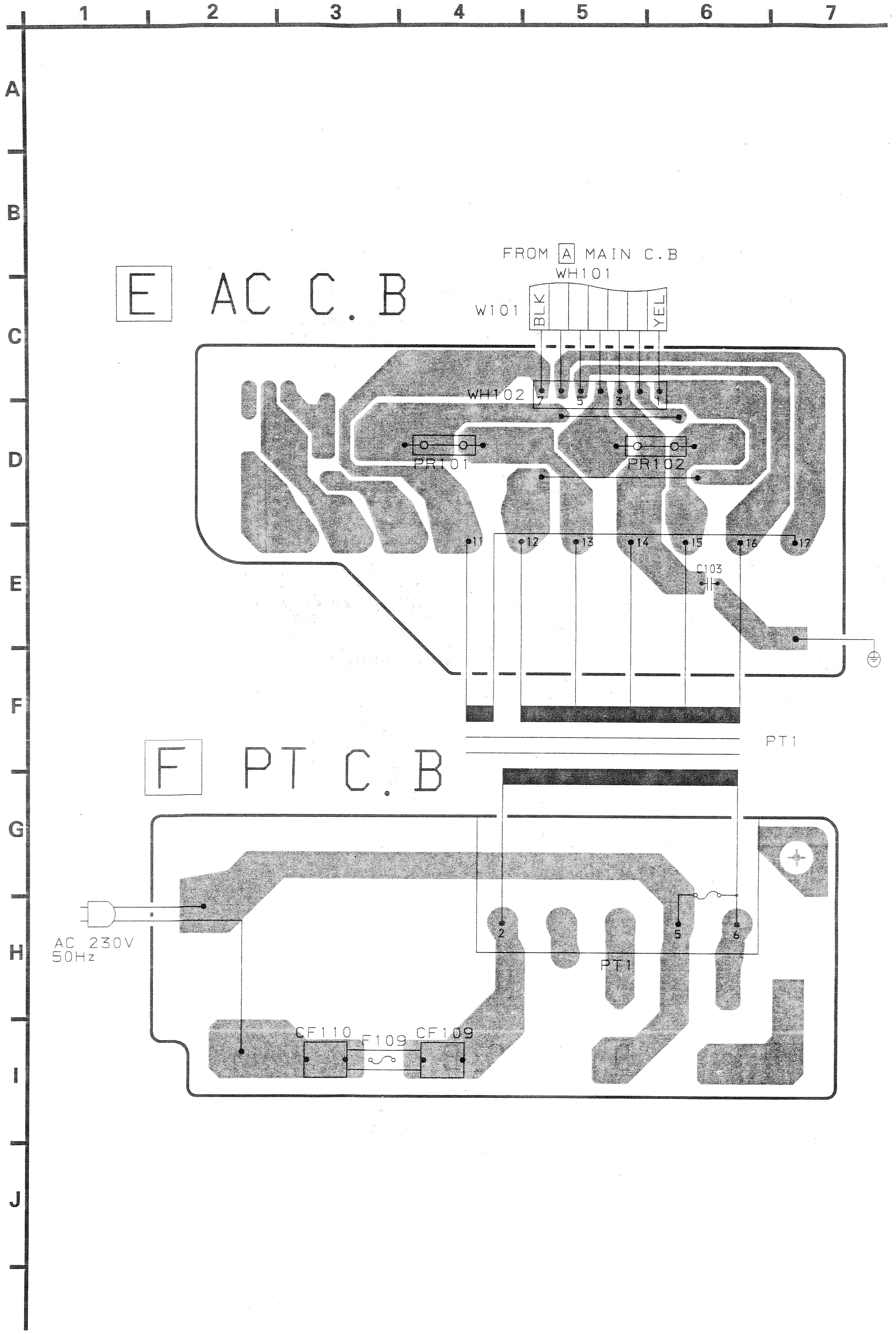
J
B FRONT C.B
CON501 TO G DECK C.B
W501
CON501
CON6 TO 3CD C.B
W104
CON104
FL101 DISPLAY
IC201
IC202
IC203
IC380
IC401
IC402
IC403
IC404
IC650
IC602
CON601 FROM A MAIN C.B
CON101
CON801
S348 BBE
S328 FRONT SURROUND
LED451 DISCO
LED452 LIVE
LED453 HALL
S327 GEQ
LED454 ROCK
LED455 POP
LED456 CLASSIC
S347 T-BASS
FROM D KEY C.B WH302
W301 RED
CON802 FROM C MVR C.B W801
S321 POWER
VR601 DIGITAL ECHO MAX ⟷ MIN
VR602 MIC MIXING MAX ⟷ MIN
J601 MIC 2
J621 MIC 1
S345 CD
LED407, 408, 420
S344 VIDEO/AUX
LED411, 412, 422
S343 TUNER/BAND
LED413, 414, 423
S305 ■ CLEAR
LED403
S342 TAPE/DECK 1/2
LED409, 410, 421
S304 CD EDIT/CHECK
S303 REV MODE (DECK 2)
S341 DEMO
S302 DOLBY NR
LED424 ~ 429 DECK LIGHT
LED405 S326 ▶▶I, ▶▶ UP
LED406 S325 I◀◀, ◀◀ DOWN
TUNING
LED401, 402 S324 ◀▶ DIRECTION/PRESET
S346 KARAOKE VOCAL FADER/MULTIPLEX
LED404 S323 ▮▮ SET
S322 ● REC/REC MUTE
S301 SYNCHRO DUBBING NORM/HIGH
C MVR C.B
MVR751
CON802
MVR751 VOLUME MAX ⟷ MIN
CON802 W801 TO B FRONT C.B CON801
D KEY C.B
S351 DISC 1
S350 DISC 2
S349 DISC 3
DISC DIRECT PLAY
S352 DISC CHANGE
S353 OPEN/▲ CLOSE
W301 RED
TO B FRONT C.B WH301
WH302

WIRING – 5 (PT)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C
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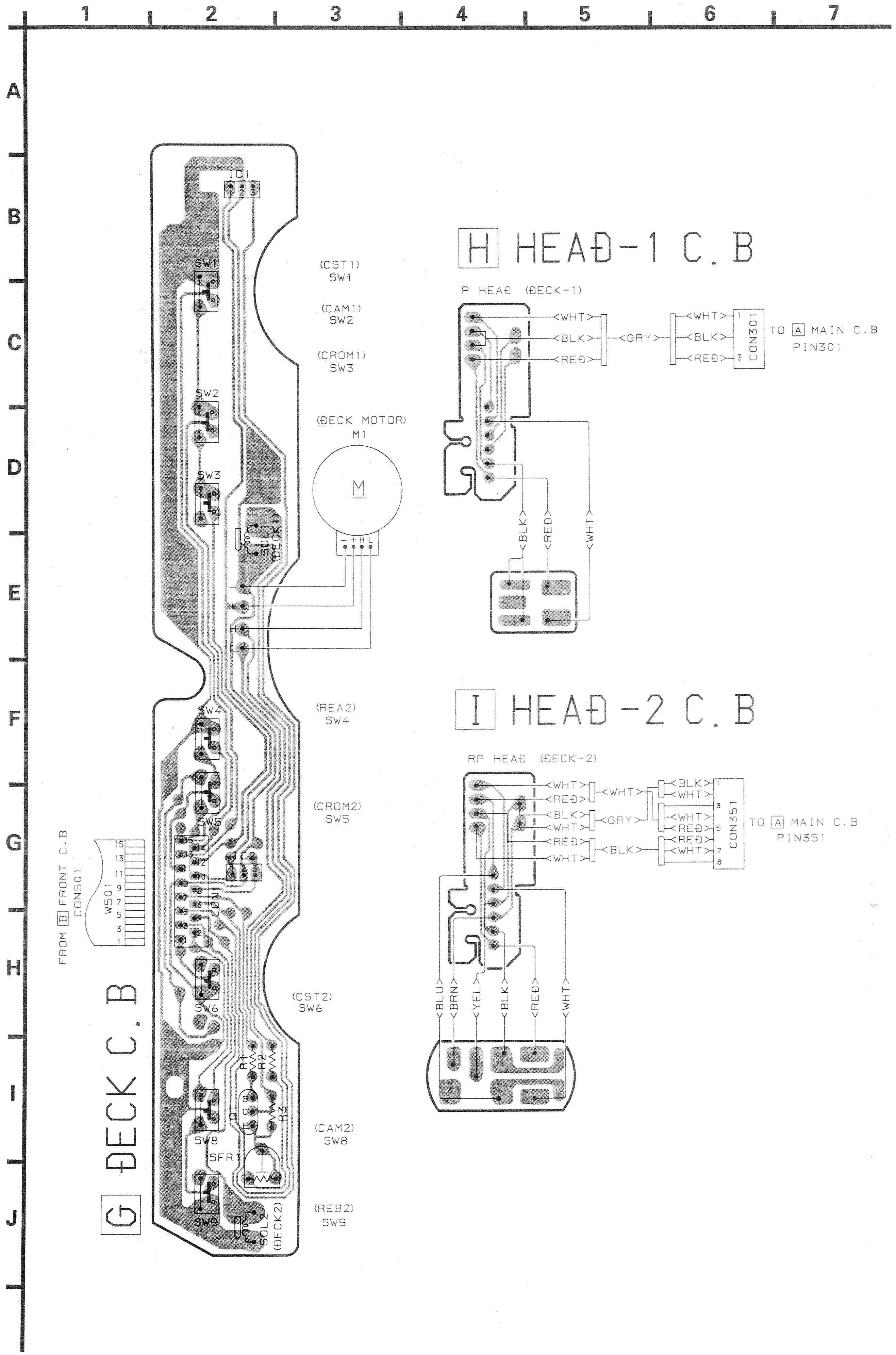
I
J
E AC C.B
FROM A MAIN C.B
WH101
W101
BLK
YEL
WH102
5
3
PR101
PR102
11
12
13
14
15
16
17
C103
PT1
F PT C.B
AC 230V
50Hz
2
5
6
PT1
CF110
F109
CF109

WIRING – 6 (DECK)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A
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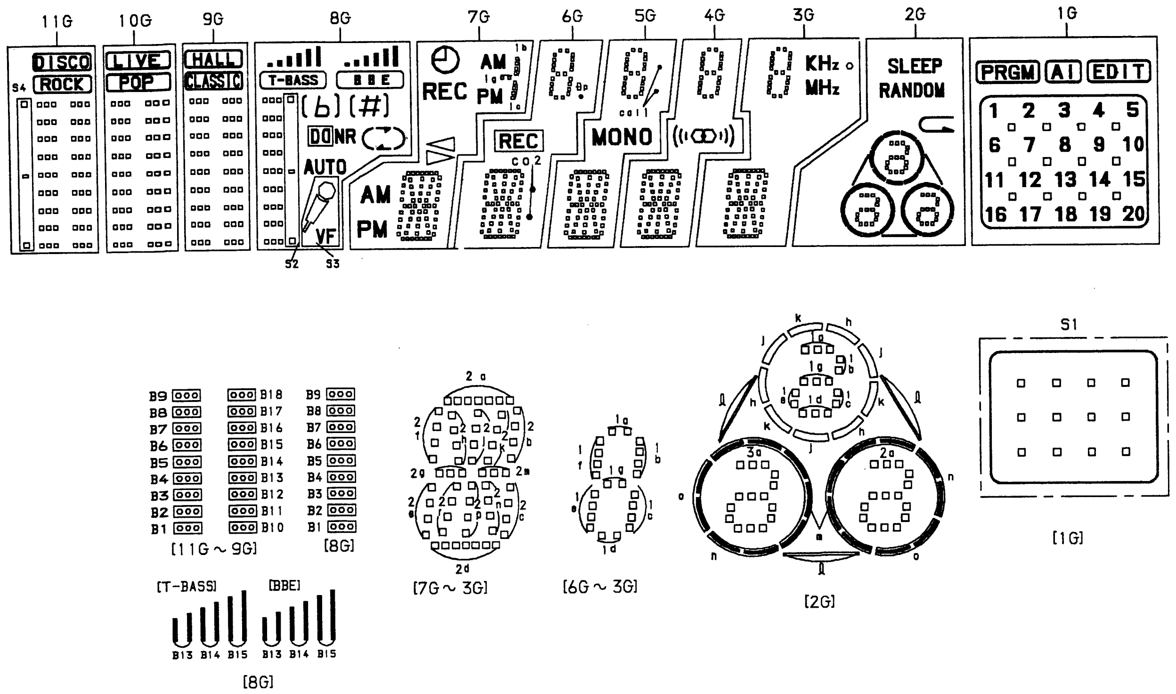
G
H
I
J
IC1
SW1
(CST1)
SW1
(CAM1)
SW2
(CROM1)
SW3
SW2
SW3
(DECK MOTOR)
M1
M
SOL1
(DECK1)
H HEAD-1 C.B
P HEAD (DECK-1)
<WHT>
<BLK>
<RED>
<GRY>
<WHT>
<BLK>
<RED>
CON301
TO A MAIN C.B
PIN301
<BLK>
<RED>
<WHT>
SW4
(REA2)
SW4
I HEAD-2 C.B
RP HEAD (DECK-2)
<WHT>
<RED>
<BLK>
<WHT>
<RED>
<WHT>
<WHT>
<GRY>
<BLK>
<BLK>
<WHT>
<WHT>
<RED>
<RED>
<WHT>
CON351
TO A MAIN C.B
PIN351
SW5
(CROM2)
SW5
IC2
CON
FROM B FRONT C.B
CON501
W501
<BLU>
<BRN>
<YEL>
<BLK>
<RED>
<WHT>
SW6
(CST2)
SW6
R1
R2
R3
Q1
SW8
(CAM2)
SW8
SFR1
SW9
SOL2
(DECK2)
(REB2)
SW9
G DECK C.B

FL GRID ASSIGNMENT / ANODE CONNECTION

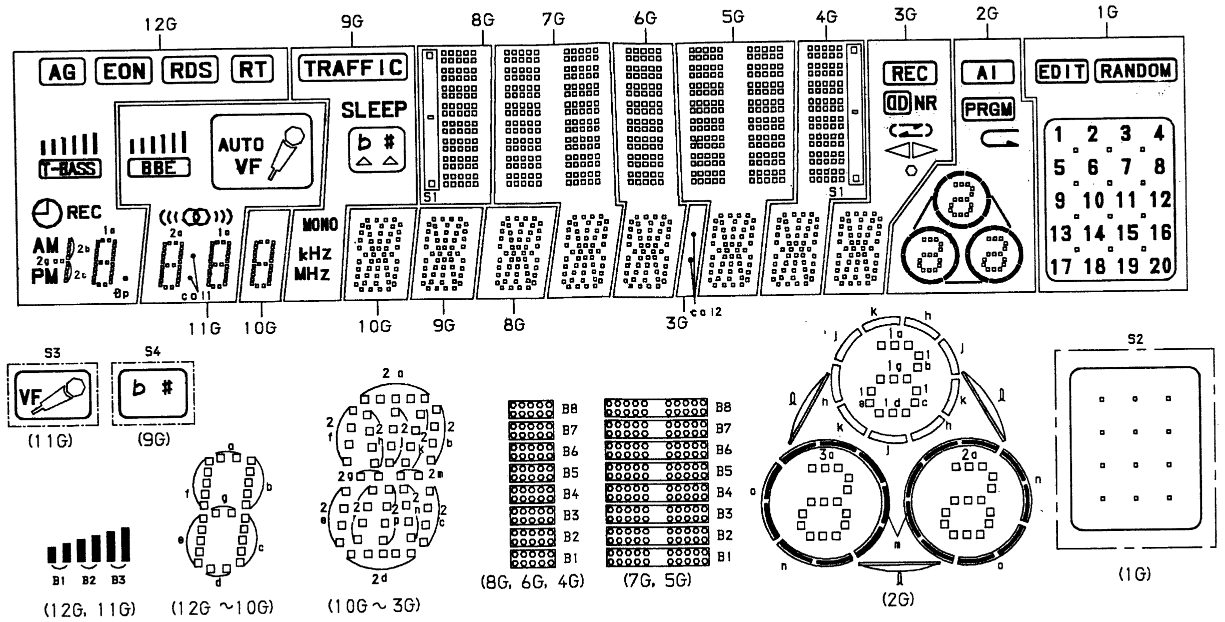
FL, BJ454GK
GRID ASSIGNMENT


11G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
DISCO
ROCK
LIVE
POP
HALL
CLASSIC
T-BASS
BBE
SLEEP
RANDOM
PRGM
AI
EDIT
REC
AM
PM
MONO
KHz
MHz
AUTO
VF
S1
S2
S3
S4
[11G ~ 9G]
[8G]
[T-BASS]
[BBE]
[7G ~ 3G]
[6G ~ 3G]
[2G]
[1G]

ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	S3	d	d	d	d	d	n	**20**
P2	B1	B1	B1	B1	j , p	j , p	j , p	j , p	j , p	o	**19**
P3	B11	B11	B11	**AUTO**	n	n	n	n	n	3e	**18**
P4	B2	B2	B2	B2	r	r	r	r	r	3c	**17**
P5	B12	B12	B12	**DD NR**	c	c	c	c	c	3a,3d,3g	**16**
P6	B3	B3	B3	B3	e	e	e	e	e	3b	**15**
P7	B13	B13	B13	(	m	m	m	m	m	2e	**14**
P8	B4	B4	B4	B4	g	g	g	g	g	2c	**13**
P9	B5	B5	B5	B5	f	f	f	f	f	2a,2d,2g	**11**
P10	B15	B15	B15	♭ ♯	b	b	b	b	b	ℓ	**10**
P11	B6	B6	B6	B6	k	k	k	k	k	j	**9**
P12	B16	B16	B16	)	h	h	h	h	h	h	**8**
P13	B7	B7	B7	B7	a	a	a	a	a	k	**7**
P14	B14	B14	B14	([#])	**PM** (lower)	c o l 2	col1(upper)	—	**KHz**	2b	**12**
P15	B17	B17	B17	([b])	**AM** (lower)	**REC**	**MONO**	(((∞)))	○	1e	**6**
P16	B8	B8	B8	B8	▷	Ðp	col1(upper)	—	**MHz**	1a,1d,1g	**5**
P17	B18	B18	B18	B12	◁	1d	1d	1d	1d	1c	**4**
P18	B9	B9	B9	B9	**REC**	1e	1e	1e	1e	1b	**3**
P19	[ROCK]	[POP]	[CLASSIC]	B13	**PM** (upper)	1c	1c	1c	1c	—	**2**
P20	[ÐISCO]	[LIVE]	[HALL]	B14	1g	1g	1g	1g	1g	m	**1**
P21	—	—	—	B11	1b, 1c	1f	1f	1f	1f	↩	**EDIT**
P22	**DISCO**	**LIVE**	**HALL**	B10	◷	1b	1b	1b	1b	**SLEEP**	**AI**
P23	**ROCK**	**POP**	**CLASSIC**	B15	**AM** (upper)	1a	1a	1a	1a	**RANDOM**	**PRGM**
P24	S4	—	—	S2 ⇄	—	—	—	—	—	—	S1
P25	—	—	—	**BBE**	—	—	—	—	—	—	—

FL, BJ461GK
GRID ASSIGNMENT

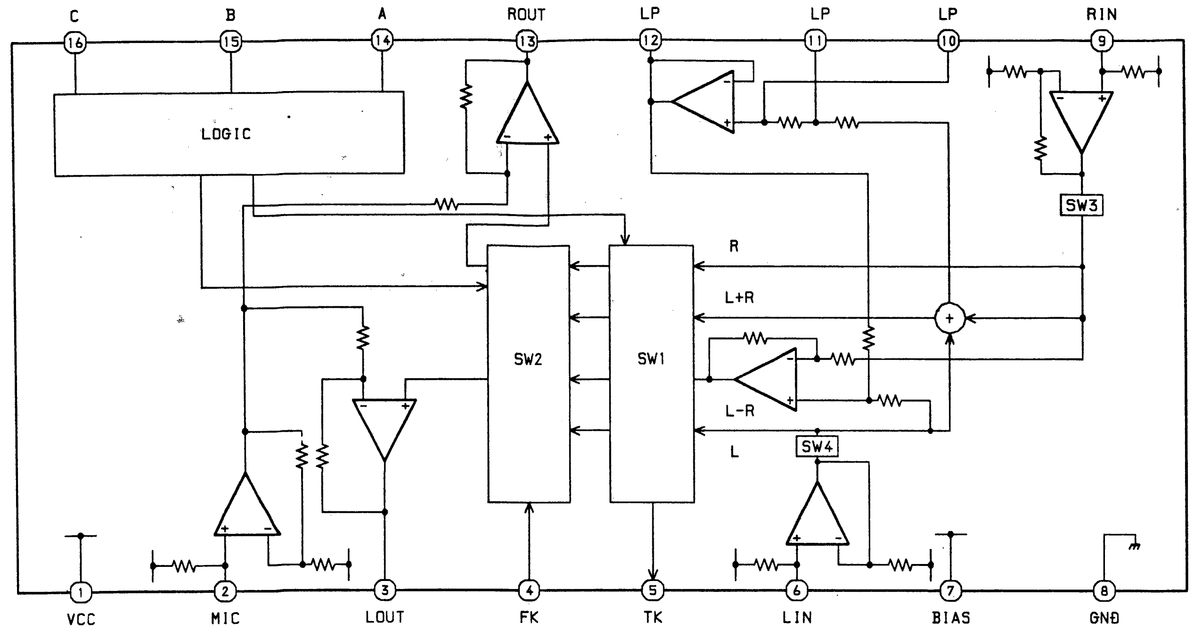

12G
11G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
AG
EON
RDS
RT
TRAFFIC
SLEEP
T-BASS
BBE
AUTO
VF
REC
AM
PM
MONO
kHz
MHz
DD NR
AI
PRGM
EDIT
RANDOM
S1
S2
S3
S4
(11G)
(9G)
(12G, 11G)
(12G ~10G)
(10G ~ 3G)
(8G, 6G, 4G)
(7G, 5G)
(2G)
(1G)

ANODE CONNECTION

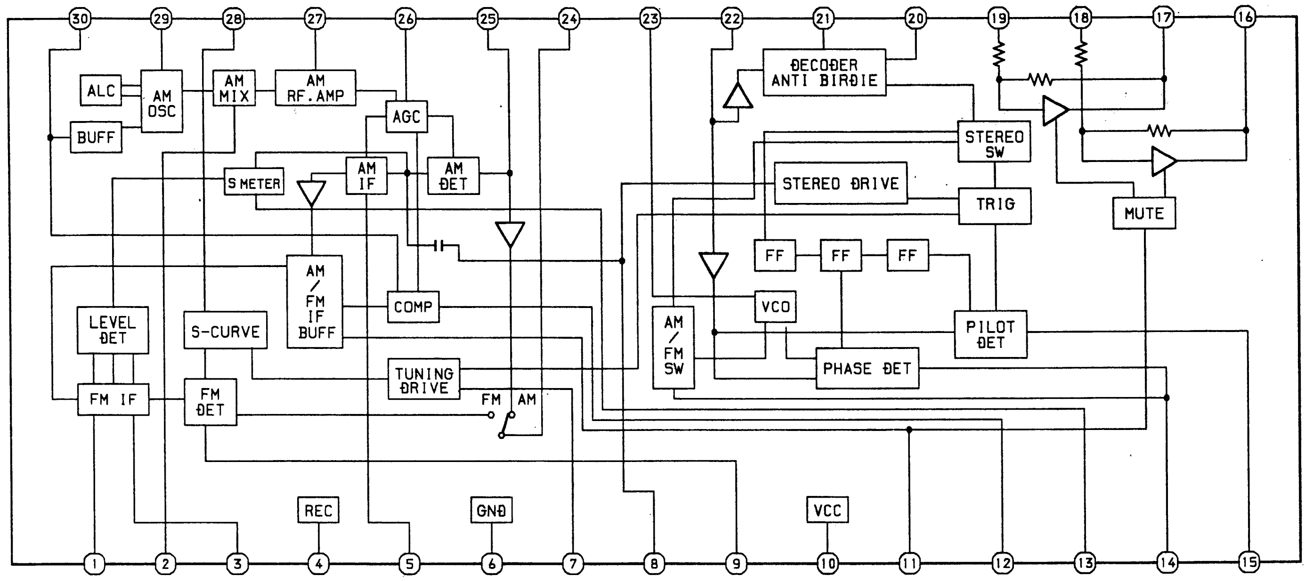
	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	2d	2d	2d	2d	2d	2d	2d	2d	n	**20**
P2	B2	B2	2n	2n	2n	2n	2n	2n	2n	2n	o	**19**
P3	B3	B3	2p	2p	2p	2p	2p	2p	2p	2p	3e	**18**
P4	**RT**	**AUTO**	2r	2r	2r	2r	2r	2r	2r	2r	3c	**17**
P5	**RDS**	S3	2e	2e	2e	2e	2e	2e	2e	2e	3a,3d,3g	**16**
P6	**EOM**	col1 (ÐOWN)	2c	2c	2c	2c	2c	2c	2c	2c	3b	**15**
P7	**AG**	2d	2g	2g	2g	2g	2g	2g	2g	2g	2e	**14**
P8	◷	2e	2m	2m	2m	2m	2m	2m	2m	2m	2c	**13**
P9	**REC**	2c	2f	2f	2f	2f	2f	2f	2f	2f	2a,2d,2g	**12**
P10	**AM**	2g	2b	2b	2b	2b	2b	2b	2b	2b	l	**11**
P11	2g	2f	2k	2k	2k	2k	2k	2k	2k	2k	j	**10**
P12	2b, 2c	2b	2j	2j	2j	2j	2j	2j	2j	2j	h	**9**
P13	**PM**	2a	2h	2h	2h	2h	2h	2h	2h	2h	k	**8**
P14	Ðp	col1 (UP)	2a	2a	2a	2a	2a	2a	2a	2a	2b	**7**
P15	1d	1d	1d	**MHz**	B1	B1	B1	B1	B1	○	1e	**6**
P16	1e	1e	1e	**KHz**	B2	B2	B2	B2	B2	◁	1a,1d,1g	**5**
P17	1c	1c	1c	**MONO**	B3	B3	B3	B3	B3	▷	1c	**4**
P18	1g	1g	1g	△ (b)	B4	B4	B4	B4	B4	(	1b	**3**
P19	1f	1f	1f	△ (#)	B5	B5	B5	B5	B5	)	m	**2**
P20	1b	1b	1b	**SLEEP**	B6	B6	B6	B6	B6	**DD NR**	**AI**	**1**
P21	1a	1a	1a	**TRAFFIC**	B7	B7	B7	B7	B7	**REC**	↩	**EDIT**
P22	–	(((∞)))	–	–	B8	B8	B8	B8	B8	col2	**PRGM**	**RANDOM**
P23	**T-BASS**	–	–	–	S1	–	–	–	S1	⇄	–	S2
P24	–	**BBE**	–	–	–	–	–	–	–	–	–	–
P25	–	–	–	S4	–	–	–	–	–	–	–	–

IC BLOCK DIAGRAM – 1

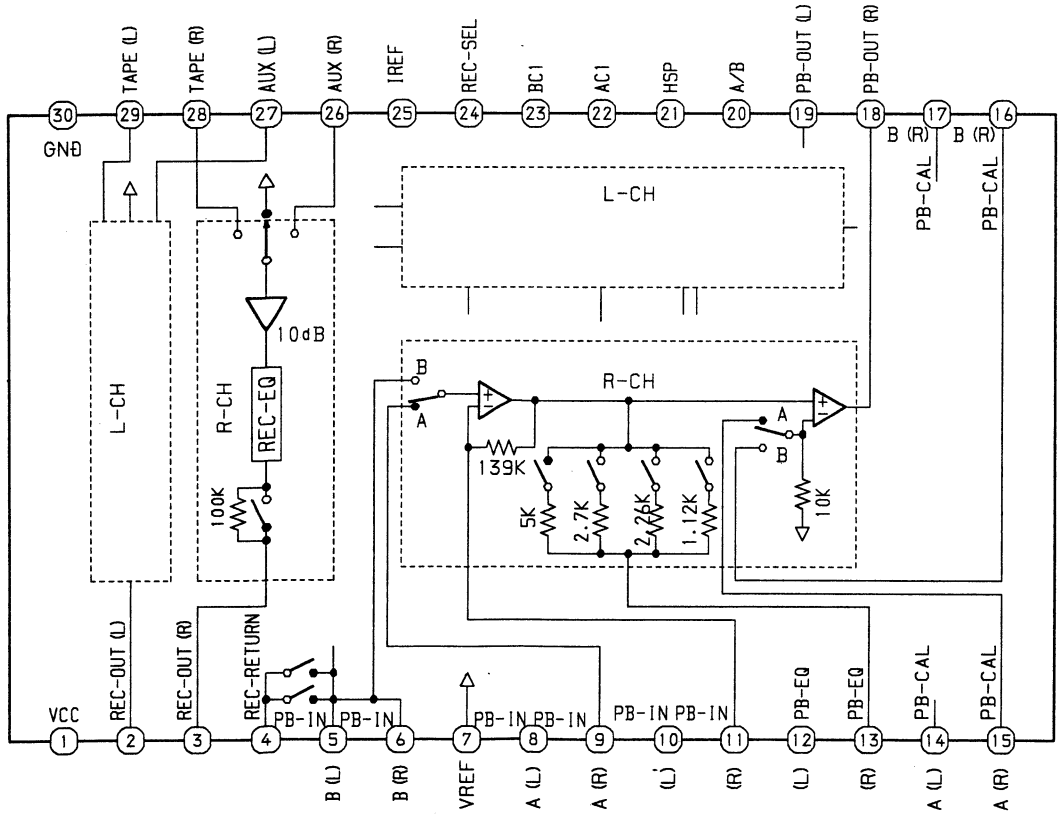
IC, BA3836


C
B
A
ROUT
LP
LP
LP
RIN
LOGIC
SW3
R
L+R
SW2
SW1
L-R
L
SW4
VCC
MIC
LOUT
FK
TK
LIN
BIAS
GND
16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8

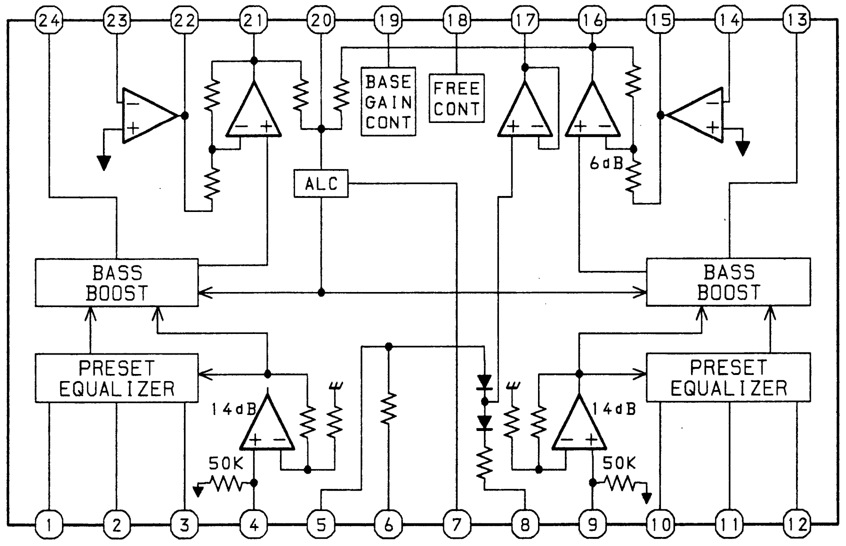
IC, LA1836L


ALC
AM OSC
AM MIX
AM RF.AMP
AGC
BUFF
S METER
AM IF
AM DET
AM / FM IF BUFF
COMP
LEVEL DET
S-CURVE
TUNING DRIVE
FM IF
FM DET
FM
AM
DECODER ANTI BIRDIE
STEREO SW
STEREO DRIVE
TRIG
MUTE
FF
FF
FF
VCO
AM / FM SW
PHASE DET
PILOT DET
REC
GND
VCC
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

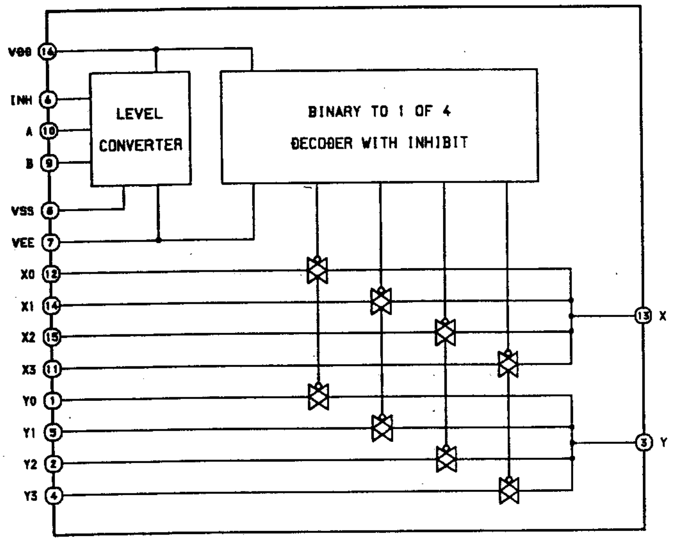
IC, HA12185NT


GND
TAPE (L)
TAPE (R)
AUX (L)
AUX (R)
IREF
REC-SEL
BCI
ACI
HSP
A/B
PB-OUT (L)
PB-OUT (R)
B (R)
B (R)
PB-CAL
PB-CAL
L-CH
R-CH
10dB
REC-EQ
100K
L-CH
R-CH
B
A
139K
5K
2.7K
2.26K
1.12K
A
B
10K
VCC
REC-OUT (L)
REC-OUT (R)
REC-RETURN
PB-IN
PB-IN
PB-IN PB-IN
PB-IN PB-IN
PB-EQ
PB-EQ
PB-CAL
PB-CAL
B (L)
B (R)
VREF
A (L)
A (R)
(L)
(R)
(L)
(R)
A (L)
A (R)
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

IC, BA3842F


BASE GAIN CONT
FREE CONT
ALC
6dB
BASS BOOST
BASS BOOST
PRESET EQUALIZER
PRESET EQUALIZER
14dB
14dB
50K
50K
24
23
22
21
20
19
18
17
16
15
14
13
1
2
3
4
5
6
7
8
9
10
11
12

IC, BU4052BC

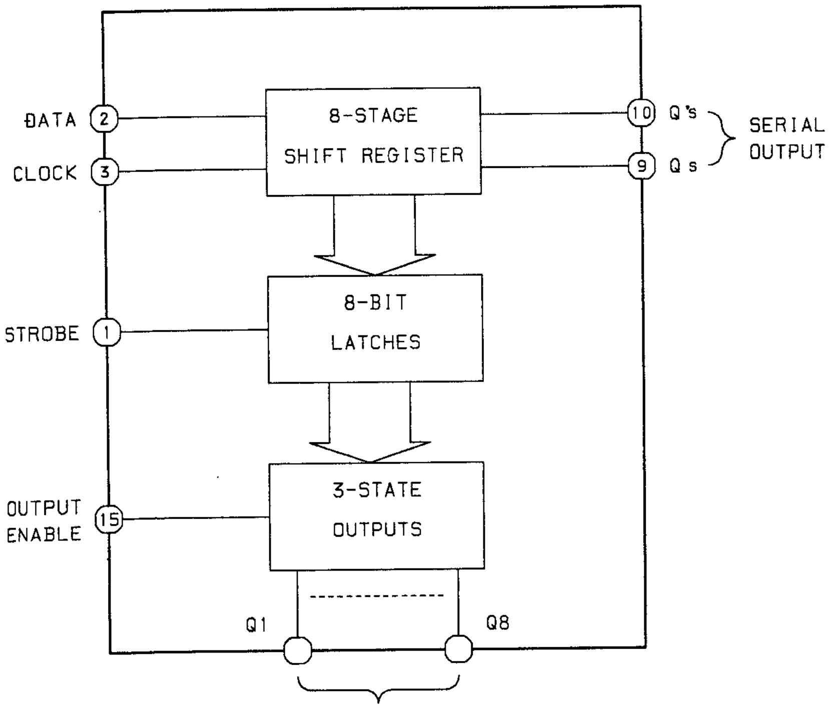

VDD 14
INH 6
A 10
B 9
VSS 8
VEE 7
X0 12
X1 14
X2 15
X3 11
Y0 1
Y1 5
Y2 2
Y3 4
LEVEL CONVERTER
BINARY TO 1 OF 4 DECODER WITH INHIBIT
13 X
3 Y

TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	x	x	NONE

X: DON'T CARE.

IC, BU4094BC/BCF


DATA 2
CLOCK 3
STROBE 1
OUTPUT ENABLE 15
8-STAGE SHIFT REGISTER
8-BIT LATCHES
3-STATE OUTPUTS
10 Q's
9 Qs
SERIAL OUTPUT
Q1
Q8
PARALLEL OUTPUT

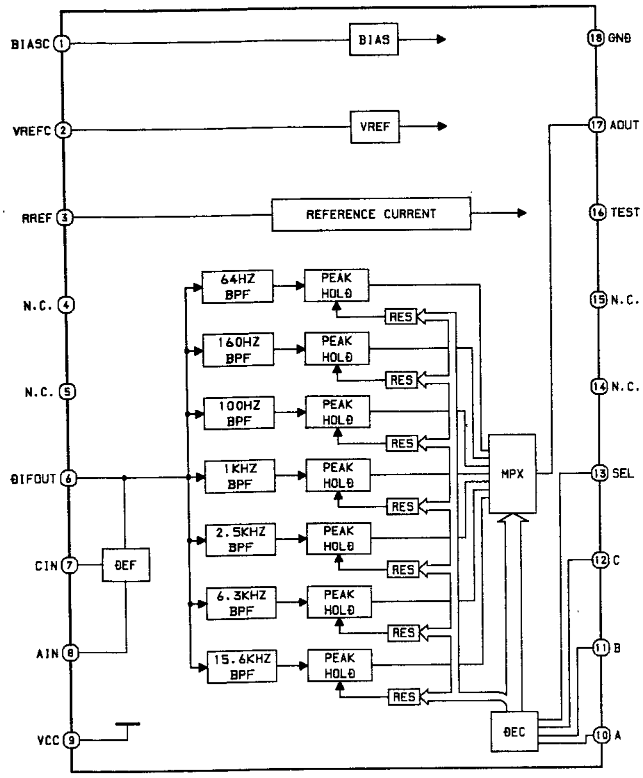
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	X	X	Z	Z	Q7	NO Chg.
↓	L	X	X	Z	Z	No Chg.	Qs
↑	H	L	X	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	X	X	No Chg.	No Chg.	No Chg.	Qs

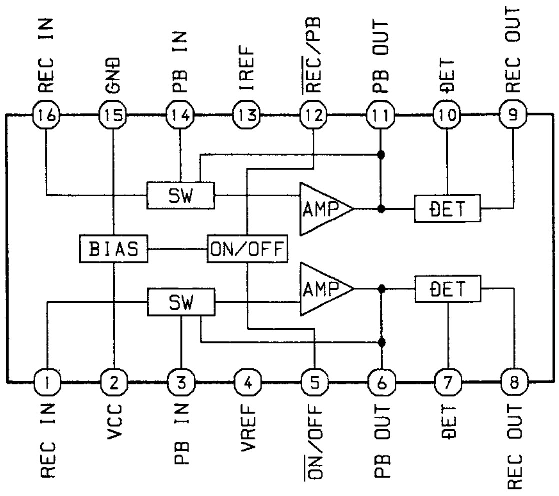
Z=High Impedance

X=Don't Care

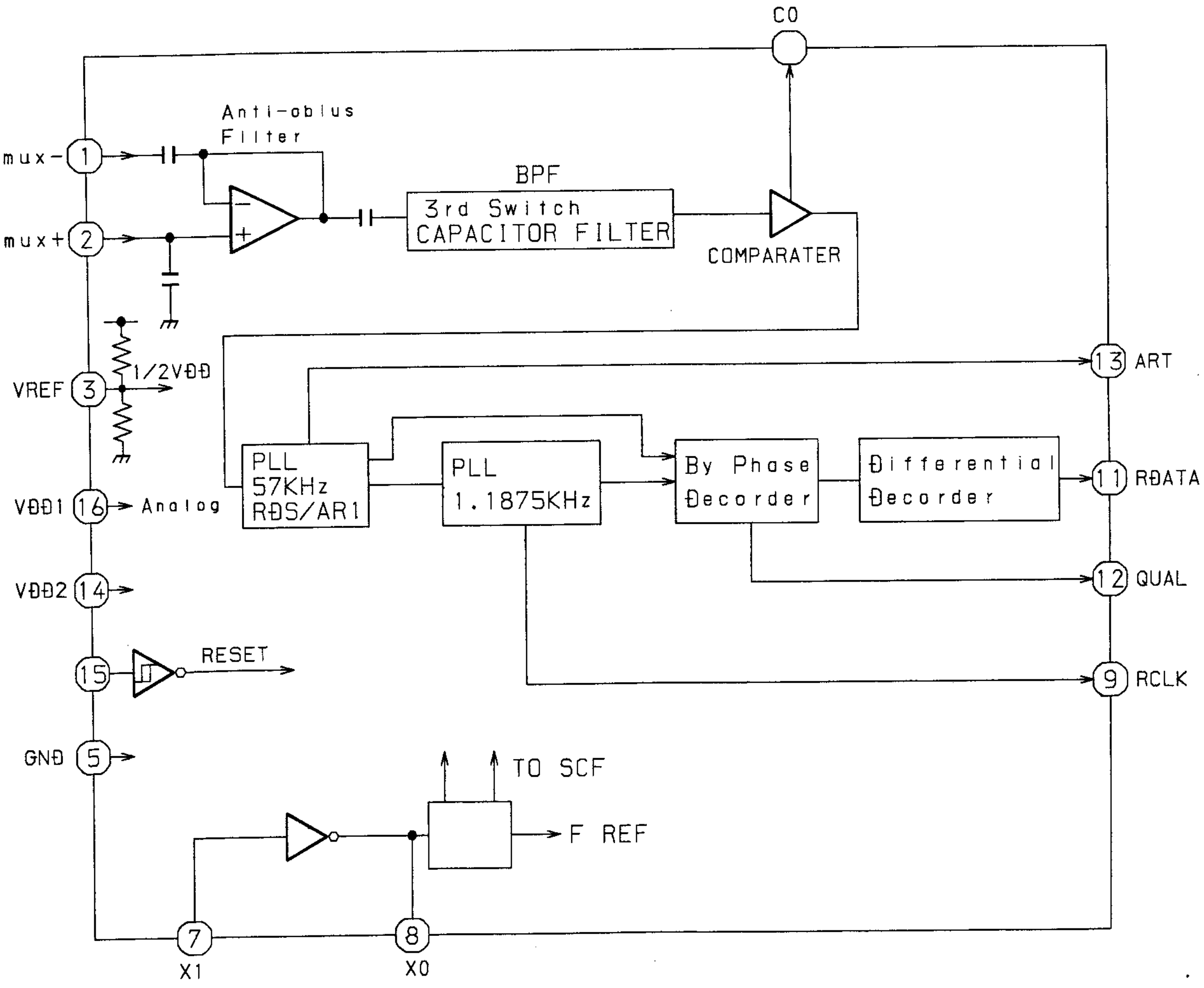
IC, BA3834S


BIASC 1
VREFC 2
RREF 3
N.C. 4
N.C. 5
DIFOUT 6
CIN 7
AIN 8
VCC 9
18 GND
17 AOUT
16 TEST
15 N.C.
14 N.C.
13 SEL
12 C
11 B
10 A
BIAS
VREF
REFERENCE CURRENT
DEF
64HZ BPF
160HZ BPF
100HZ BPF
1KHZ BPF
2.5KHZ BPF
6.3KHZ BPF
15.6KHZ BPF
PEAK HOLD
RES
MPX
DEC

IC, HA12134A


REC IN 16
GND 15
PB IN 14
IREF 13
REC/PB 12
PB OUT 11
DET 10
REC OUT 9
SW
AMP
DET
BIAS
ON/OFF
SW
AMP
DET
1 REC IN
2 VCC
3 PB IN
4 VREF
5 ON/OFF
6 PB OUT
7 DET
8 REC OUT

IC, BU1921FS


CO
Anti-oblus Filter
mux- 1
mux+ 2
BPF
3rd Switch CAPACITOR FILTER
COMPARATER
VREF 3
1/2VDD
13 ART
PLL 57KHz RDS/AR1
PLL 1.1875KHz
By Phase Decorder
Differential Decorder
11 RDATA
VDD1 16 Analog
VDD2 14
12 QUAL
15
RESET
9 RCLK
GND 5
TO SCF
F REF
7 X1
8 X0

IC DESCRIPTION

IC, LC866432V-5A45

Pin No.	Pin Name	I/O	Description
1	O-PLL CE	O	PLL IC chip enable.
2	O-DSP/CE	O	DSP data latch strobe output.
3	O-M/STB	O	Main shift register data latch strobe output.
4	O-M/DATA	O	Main shift register, PLL/Key control/DSP related data output.
5	O-M/CLK	O	Main shift register, PLL/Key control/DSP related clock.
6	I-HP	I	Not used. Connect Pin 10 with RES.
7	$\overline{\text{RESET}}$	I	Reset input.
8	I-$\overline{\text{STEREO}}$	I	Tuner stereo detected input.
9	I-$\overline{\text{TUNE/IFC}}$	I	Tuner $\overline{\text{SD}}$ detected input. IF count serial data input.
10	VSS1	-	GND.
11,12	CF1, 2	-	5.76 MHz oscillator circuit.
13	VDD1	-	Power supply input.
14~16	I-KEY1 - 3	I	Key input. (A/D)
17	I-CD/SW	I	CD mechanical switch A/D converter input.
18	I-CD/DISH	I	CD turntable photo sensor A/D converter input.
19	I-MS	I	Deck music sensor signal input.
20	I-SPEANA	I	A/D input for spectrum analyzer display.
21	I-MIC	I	Microphone input for auto VF display.
22	I-TM BASE	I	Reference clock input for timer watch.
23	I-$\overline{\text{HOLD}}$	I	Power failure detected input "L" to stop clock and maintain memory.
24	I-$\overline{\text{RMC}}$	I	System remote control signal input.
25~35	G11~G1	O	FL grid output G11~G1.
36~40	P23~P19	O	FL segment output P23~P19.
41	VDD2	-	Power supply input.
42	-VP	-	Power supply input (-34.5V) for FL display.
43	P18/$\overline{\text{CST1}}$	O/I	FL segment output P18, DECK1 cassette detect switch data input.
44	P17/$\overline{\text{AUTO1}}$	O/I	FL segment output P17, DECK1 auto stop signal input.
45	P16/$\overline{\text{CAM1}}$	O/I	FL segment output P16, DECK1 cam switch data input.
46	P15/$\overline{\text{CAM2}}$	O/I	FL segment output P15, DECK2 cam switch data input.
47	P14/$\overline{\text{AUTO2}}$	O/I	FL segment output P14, DECK2 auto stop signal input.
48	P13/$\overline{\text{CST2}}$	O/I	FL segment output P13, DECK2 cassette detect switch data input.
49	P12/REA2	O/I	FL segment output P12, DECK2 side-A record OK switch data input.
50	P11/REB2	O/I	FL segment output P11, DECK2 side-B record OK switch data input.
51	P10/NO·ECHO	O/I	FL segment output P10, NO·ECHO mode data input to diode.
52	P1/AM-ST,FM-W	O/I	FL segment output P1, AM stereo, FM-WIDE mode data input to diode.
53	P2/AM10K	O/I	FL segment output P2, AM 10kHz step data input to diode.
54	P3/LW	O/I	FL segment output P3, LW mode data input to diode.
55	P4/SW	O/I	FL segment output P4, SW mode data input to diode.
56	P5	O	FL segment output P5.
57	P6/NO·DSP	O/I	FL segment output P6, NO·DSP data input to diode.
58	P7/KEY·CON	O/I	FL segment output P7, key control data input to diode.

Pin No.	Pin Name	I/O	Description
59	P8/PAL	O/I	FL segment output P8, PAL data input to diode.
60	P9/OIRT	O/I	FL segment output P9, OIRT mode data input to diode.
61	O-CLOSE	O	CD tray close data output.
62	O-OPEN	O	CD tray open data output.
63	O-DI/R	O	CD turntable reverse rotation output.
64	O-DI/F	O	CD turnable forward rotation output.
65	O-$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
66	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
67	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
68	O-$\overline{\text{MOTOR}}$	O	DECK motor output.
69	O-$\overline{\text{KEY·SCAN}}$	O	Switch scan timing output.
70	O-F/STB	O	Front shift register, data latch strobe output.
71	O-F/CLK	O	Front shift register, data transfer clock output.
72	O-F/DATA	O	Front shift register, data output.
73	VSS2	-	GND.
74	O-CD/DATA	O	CD IC control data output.
75	O-CD/XTL	O	CD IC control latch strobe output.
76	O-CD/CLK	O	CD IC control clock output.
77	I-CD/SENSE	I	CD IC control data bus data input.
78	O-CD/SQ·DATA	O	CD IC control data bus data output.
79	O-CD/SQ·CLK	O	CD IC control data bus clock output.
80	O-MUTE	O	System mute output.

IC, LC72131D

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">–</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866432V-5A45) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866432V-5A45).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / AM</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><td>AM</td><td>FM</td><td>LW</td><td>MW</td><td>FM</td><td>MW</td><td>SW</td><td>FM</td></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>A MIN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>F MIN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

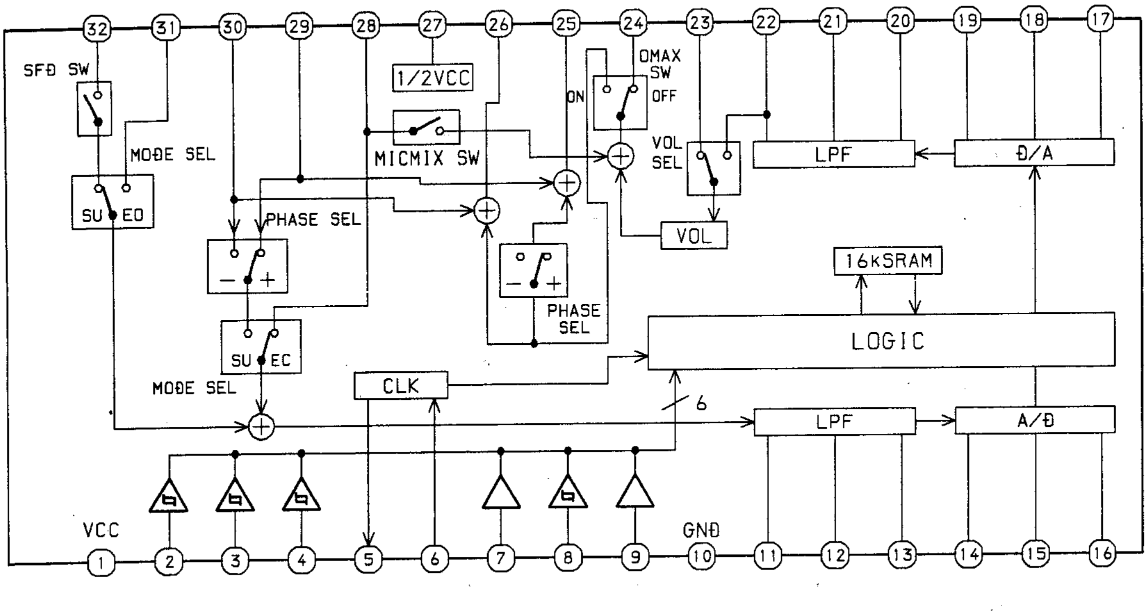
IC, LC866448W-5B86

Pin No.	Pin Name	I/O	Description
1	O-PLL CE	O	PLL IC chip enable.
2	O-DSP/CE	O	DSP data latch strobe output.
3	O-M/STB	O	Main shift register data latch strobe output.
4	O-M/DATA	O	Main shift register, PLL/Key control/DSP related data output.
5	O-M/CLK	O	Main shift register, PLL/Key control/DSP related clock.
6	I-HP	I	Not used. Connect Pin 10 with RES.
7	$\overline{\text{RESET}}$	I	Reset input.
8	I-DI-SENS	I	CD / Turn table sensor input.
9	I-$\overline{\text{TUNE}}$/IFC	I	Tuner $\overline{\text{SD}}$ detected input. IF count serial data input.
10	VSS1	-	GND.
11,12	CF1, 2	-	5.76 MHz oscillator circuit.
13	VDD1	-	Power supply input.
14~16	I-KEY1 - 3	I	Key input. (A/D)
17	I-CD/SW	I	CD mechanical switch A/D converter input.
18	I-RDSIG	I	RDS IC / Qual input.
19	I-MS	I	Deck music sensor signal input.
20	I-SPEANA	I	A/D input for spectrum analyzer display.
21	I-MIC	I	Microphone input for auto VF display.
22	I-$\overline{\text{HOLD}}$	I	Power failure detected input "L" to stop clock and maintain memory.
23	I-RDCLK	I	RDS IC/ R CLK input.
24	I-$\overline{\text{RMC}}$	I	System remote control signal input.
25~36	G12~G1	O	FL grid output G12~G1.
37~40	P22~P19	O	FL segment output P22~P19.
41	VDD2	-	Power supply input.
42	-VP	-	Power supply input (-34.5V) for FL display.
43	P18/$\overline{\text{CST1}}$	O/I	FL segment output P18, DECK1 cassette detect switch data input.
44	P17/$\overline{\text{AUTO1}}$	O/I	FL segment output P17, DECK1 auto stop signal input.
45	P16/$\overline{\text{CAM1}}$	O/I	FL segment output P16, DECK1 cam switch data input.
46	P15/$\overline{\text{CAM2}}$	O/I	FL segment output P15, DECK2 cam switch data input.
47	P14/$\overline{\text{AUTO2}}$	O/I	FL segment output P14, DECK2 auto stop signal input.
48	P13/$\overline{\text{CST2}}$	O/I	FL segment output P13, DECK2 cassette detect switch data input.
49	P12/REA2	O/I	FL segment output P12, DECK2 side-A record OK switch data input.
50	P11/REB2	O/I	FL segment output P11, DECK2 side-B record OK switch data input.
51	P10/I-TM BASE	O/I	FL segment output P10, reference clock input for timer watch.
52	P1/AM-ST,FM-W	O/I	FL segment output P1, AM stereo, FM-WIDE mode data input to diode.
53	P2/AM10K	O/I	FL segment output P2, AM 10kHz step data input to diode.
54	P3/NO LW	O/I	FL segment output P3.
55	P4/SW	O/I	FL segment output P4, SW mode data input to diode.
56	P5	O	FL segment output P5.
57	P6/NO·DSP	O/I	FL segment output P6, NO·DSP data input to diode.
58	P7/NO RDS	O/I	FL segment output P7, NO RDS data input to diode.

Pin No.	Pin Name	I/O	Description
59	P8/PAL	O/I	FL segment output P8, PAL data input to diode.
60	P9/OIRT	O/I	FL segment output P9, OIRT mode data input to diode.
61	O-CLOSE	O	CD tray close data output.
62	O-OPEN	O	CD tray open data output.
63	O-DI/R	O	CD turntable reverse rotation output.
64	O-DI/F	O	CD turnable forward rotation output.
65	O-$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
66	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
67	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
68	O-$\overline{\text{MOTOR}}$	O	DECK motor output.
69	O-$\overline{\text{KEY·SCAN}}$	O	Switch scan timing output.
70	O-F/STB	O	Front shift register, data latch strobe output.
71	O-F/CLK	O	Front shift register, data transfer clock output.
72	O-F/DATA	O	Front shift register, data output.
73	VSS2	-	GND.
74	O-CD/DATA	O	CD IC control data output.
75	O-CD/XTL	O	CD IC control latch strobe output.
76	O-CD/CLK	O	CD IC control clock output.
77	I-CD/SENSE/I-RD-DA	I	CD IC control data bus data input / latch strobe output / RDS data input.
78	O-CD.SQ DATA/ I-$\overline{\text{STEREO}}$	O/I	CD IC control data bus data output / $\overline{\text{STEREO}}$ input.
79	O-CD/SQ·CLK	O	CD IC control data bus clock output.
80	O-MUTE	O	System mute output.

IC BLOCK DIAGRAM – 2

IC, M65846FP-600D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SFD SW
MODE SEL
SU ED
1/2VCC
MICMIX SW
ON
DMAX SW
OFF
VOL SEL
VOL
LPF
D/A
16kSRAM
PHASE SEL
PHASE SEL
LOGIC
SU EC
MODE SEL
CLK
6
LPF
A/D
VCC
GND
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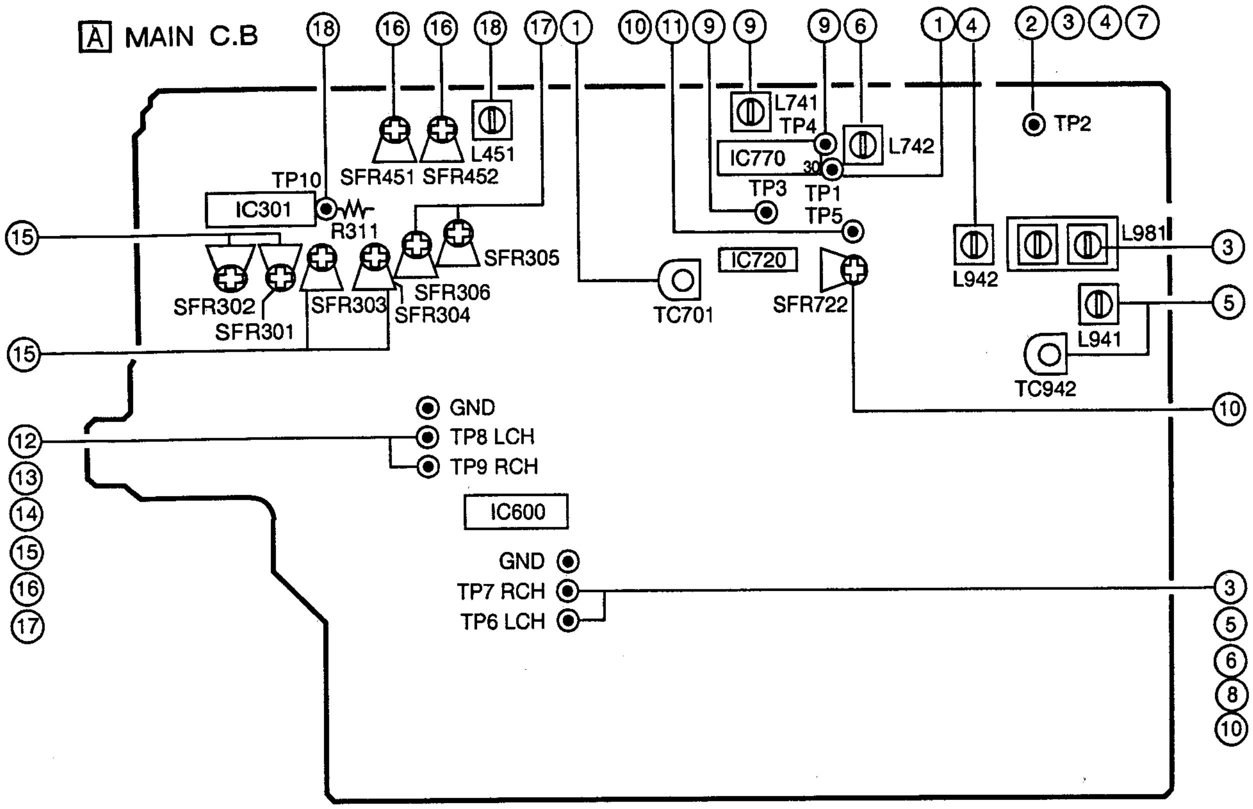
16

△ : SCHMIT TRIGGER BUFFER (WITH PULLDOWN)

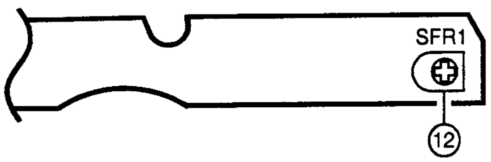
△ : CMOS BUFFER (WITH PULLDOWN)

ADJUSTMENT <TUNER / DECK>

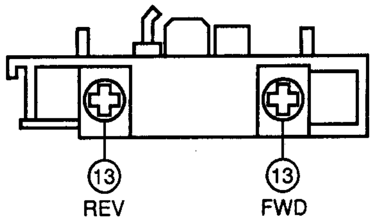
A MAIN C.B


⑱ ⑯ ⑯ ⑱ ⑰ ① ⑩ ⑪ ⑨ ⑨ ⑨ ⑥ ① ④ ② ③ ④ ⑦
L741
TP4
L742
IC770
30
TP3
TP1
TP5
TP2
L451
SFR451
SFR452
TP10
IC301
R311
SFR305
SFR306
SFR304
SFR303
SFR302
SFR301
TC701
IC720
SFR722
L942
L981
L941
TC942
⑮
⑮
⑫ ⑬ ⑭ ⑮ ⑯ ⑰
GND
TP8 LCH
TP9 RCH
IC600
GND
TP7 RCH
TP6 LCH
③
⑤
⑩
③ ⑤ ⑥ ⑧ ⑩

G DECK C.B



DECK-1 P, DECK-2 R / P / E HEAD



< TUNER SECTION >

1. Clock Frequency Adjustment
   Settings : • Test point : TP1 (CLK IC770 pin30)
   • Adjustment location : TC701
   Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz ± 0.01kHz.

2. MW VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to MW 1602kHz and check that the test point is 6.8V ± 1.0V.

3. MW Tracking Adjustment
   Settings : • Test point : TP6, TP7
   • Adjustment location :
   L981 .... 999kHz
   Method : The level at 999kHz is adjusted to MAX by L981.

4. LW VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V ± 0.05V.

5. LW Tracking Adjustment
   Settings : • Test point : TP6, TP7
   • Adjustment location :
   L941 .... 144kHz
   TC942 .... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

6. AM IF Adjustment
   Settings : • Test point : TP6, TP7
   • Adjustment location :
   L742.. 450kHz

7. FM VT Check
Settings : • Test point : TP2 (VT)
Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.3V (87.5MHz) and less than 8.0V(108.0MHz).

8. FM Tracking Check
Settings : • Test point : TP6, TP7
Method : • Set to FM 98.0MHz and check that the test point is 6dB ± 6dB.

9. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC balance)
: TP6, TP7 (Distortion)
• Adjustment location : L741
• Input level : 54dB
Method : Set to FM 98.0MHz, and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
Next, check that the distortion is less than 1.3%.

10. Auto Stop Level Adjustment
Settings : • Test point : TP5
• Adjustment location : SFR722
• Input level : 16dB
Method : • Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) by 2dB down.

11. Auto Stop Level Check
MW
Settings : • Test point : TP5
• Input level : 50dB
Method : Set to MW 999kHz and check that the test point is 45 ~ 65 dB.

FM
Settings : • Test point : TP5
• Input level : 18dB
Method : Set to FM 98.0MHz and check that the test point is 20 dB ± 5 dB.

< DECK SECTION >

12. Tape Speed Adjustment
Settings : • Test tape : TTA–100
• Test point : TP8, TP9
• Adjustment location : SFR1
Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

13. Head Azimuth Adjustment
Settings : • Test tape : TTA–300
• Test point : TP8, TP9
• Adjustment location : Head azimuth adjustment screw
Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD and REV PLAYmode.

14. PB Frequency Response Check (DECK 1, DECK 2)
Settings : • Test tape : TTA–300
• Test point : TP8, TP9
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is ±2dB

15. PB Sensitivity Adjustment (DECK 1, DECK 2)
Settings : • Test tape : TTA–200
• Test point : TP8, TP9
• Adjustment location :
SFR301 (DECK 1, Lch)
SFR302 (DECK 1, Rch)
SFR303 (DECK 2, Lch)
SFR304 (DECK 2, Rch)
Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

16. REC/PB Frequency Response Adjustment
Settings : • Test tape : TTA–602
• Test point : TP8, TP9
• Input signal : 1kHz / 10kHz (LINE IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that theoutput level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

17. REC/PB Sensitivity Adjustment
Settings : • Test tape : TTA–602
• Test point : TP8, TP9
• Input signal : 1kHz (LINE IN)
• Adjustment location : SFR305 (Lch)
SFR306 (Rch)
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz signals and adjust SFRs so that the output is 17mV ± 0.5dB.

18. Bias OSC Frequency Adjustment
Settings : • Test tape : TTA–615
• Test point : TP10 (R311)
• Adjustment location : L451
Method : Set to the REC mode. Adjust L451 so that the frequency counter of the test point becomes 85 kHz ± 1 kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : (THD 3%)	-2dB ~ 14dB<820EZ,NAPIMK3EZ> -1dB ~ 11dB<V> [at 87.5 / 98.0MHz] 0dB ~ 16dB<820EZ,NAPIMK3EZ> 2dB ~ 14dB<V> [at 108.0MHz] 2dB ~ 14dB<V> [at 65.0/70.0/74.0MHz]
S/N 46dB<EZ>,50dB<V>	
Quieting sensitivity :	<820 EZ,NAPIMK3EZ> Less than 39dB [at 87.5 / 98.0 / 108.0MHz] <V> Less than 39dB [at 65.0 / 70.0 / 74.0MHz]
Signal to noise ratio :	<820EZ,NAPIMK3EZ> (MONO) More than 60dB (STEREO) More than 57dB [at 98.0MHz] <V> (MONO) More than 65dB (STEREO) More than 64dB [at 98.0MHz]
Distortion :	(MONO) Less than 1.3% [at 98.0MHz] (STEREO) Less than 2.0% [at 98.0MHz]
Auto stop level :	20dB ± 10dB [at 98.0MHz]
Stereo separation :	More than 20dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM(MW) SECTION>

Sensitivity : (S/N 20 dB)	52 ~ 62dB [at 603kHz] 48 ~ 58dB [at 999 / 1404kHz]
Signal to noise ratio :	More than 36dB [at 999kHz]
Distortion :	Less than 1.5% [at 999kHz]
Auto stop level :	40 ~ 65dB [at 999kHz]
Intermediate frequency :	450kHz

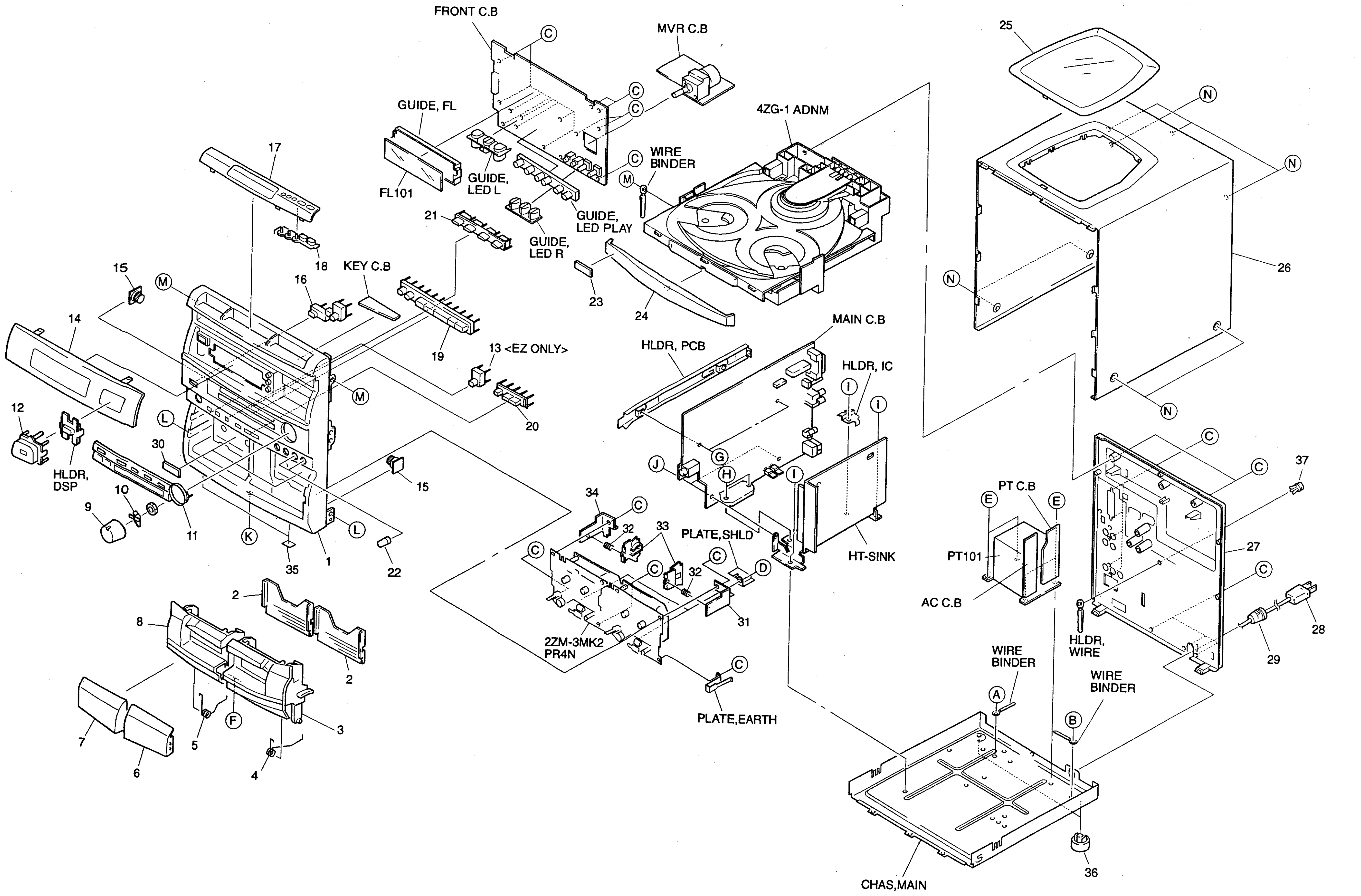
<LW SECTION>

Sensitivity : (S/N 20dB)	64dB ± 5dB (144kHz) 62dB ± 5dB (198kHz) 60dB ± 5dB (290kHz)
Distortion :	Less than 1.4% (198kHz)
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 160g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	2.8V ± 2dB (SP OUT 2V)
REC/PB output level :	1.6V ± 2dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO_2)
Noise level (PB) :	Less than 110mV (NORM, SP OUT 2V) Less than 90mV (CrO_2, SP OUT 2V)
Noise level (REC/PB) :	Less than 120mV (DOLBY OFF, NORM, SP OUT 2V) Less than 100mV (DOLBY OFF, CrO_2, SP OUT 2V)
Crosstalk :	More than 58dB (1kHz, 0VU)
Channel separation :	More than 45dB (1kHz, 0VU)
Erasing ratio :	More than 60dB (at 125Hz)
Test tape :	TTA–602 (NORMAL) TTA–615 (CrO_2)

MECHANICAL EXPLODED VIEW 1/1



FRONT C.B
MVR C.B
25
GUIDE, FL
4ZG-1 ADNM
N
WIRE
BINDER
M
C
17
FL101
GUIDE,
LED L
21
GUIDE,
LED PLAY
GUIDE,
LED R
26
15
M
16
18
KEY C.B
23
24
14
MAIN C.B
13 <EZ ONLY>
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HLDR, PCB
HLDR, IC
I
M
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L
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HLDR,
DSP
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G
J
H
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K
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PLATE,SHLD
PT C.B
E
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27
22
35
1
D
PT101
HT-SINK
AC C.B
2
8
31
2ZM-3MK2
PR4N
28
HLDR,
WIRE
29
WIRE
BINDER
A
B
2
PLATE,EARTH
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F
7
5
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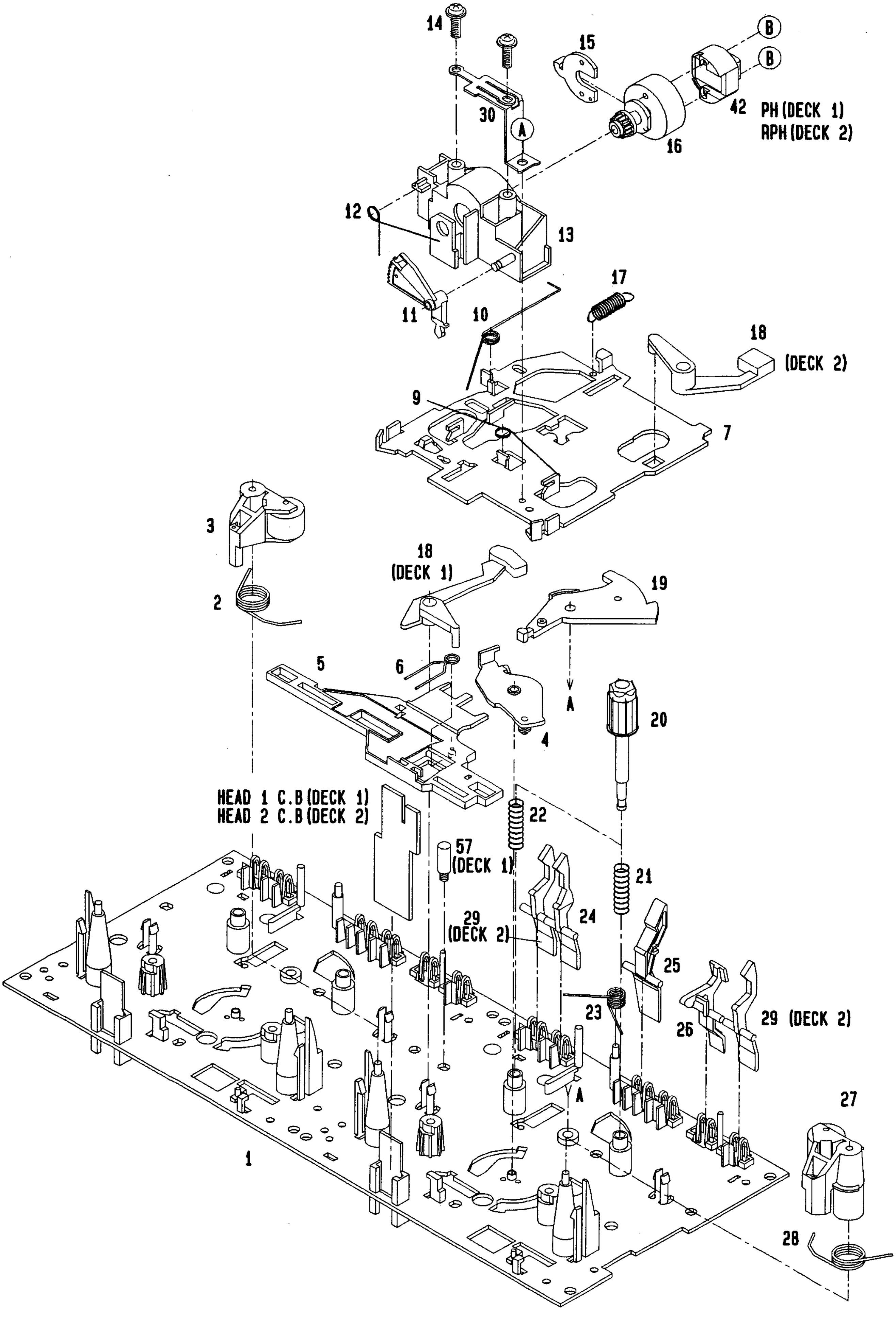
4
36
CHAS,MAIN

MECHANICAL PARTS LIST 1/1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF5-073-010		CABI,FR AP1(RDS)<AP1MK3EZ>
1	86-NF5-026-110		CABI,FR E<800V>
1	86-NF5-061-010		CABI,FR E(RDS)<820EZ>
2	86-NF6-061-010		REFLECTOR,CASS
3	86-NF5-029-010		BOX,CASS R E
4	82-NF5-219-010		SPR-T,EJECT 2(SIN)
5	82-NF5-218-010		SPR-T,EJECT 1(SIN)
6	86-NF5-007-010		WINDOW,CASS R
7	86-NF5-006-010		WINDOW,CASS L
8	86-NF5-028-010		BOX,CASS L E
9	86-NF5-020-010		KNOB,RTRY MAIN
10	86-NF5-021-010		LENS,VOL
11	86-NF5-009-010		PANEL,FUN
12	86-NF5-019-110		KEY,DSP
13	86-NF5-063-010		KEY,RDS<EXCEPT 800V>
14	86-NF5-004-010		WINDOW,DISPLAY<800V>
14	86-NF5-062-010		WINDOW,DISPLAY (RDS)<EXCEPT 800V>
15	87-063-165-010		OIL-DMPR,150
16	86-NF5-010-010		KEY,POWER
17	86-NF5-005-010		WINDOW,CD
18	86-NF5-018-010		KEY,OPEN
19	86-NF5-016-010		KEY,PLAY
20	86-NFF-015-010		KEY,KARAOKE<EXCEPT 800V>
20	86-NF5-017-010		KEY,KARAOKE<800V>
21	86-NF5-011-010		KEY ASSY,FUN
22	86-NF6-050-010		KNOB,RTRY MIC M
23	82-NE6-067-010		BADGE,AIWA 30N
24	86-NF5-030-010		PANEL,TRAY E
25	86-NF6-007-010		WINDOW,TOP
26	86-NF6-002-010		CABI,STEEL<800V>
26	86-NF6-057-010		CABI,STEEL G<EXCEPT 800V>
27	86-NF5-074-010		PANEL,REAR EEZBNE (AP1)<AP1MK3EZ>
27	86-NF5-072-010		PANEL,REAR EEZBNE (RDS)<820EZ>
27	86-NF5-039-010		PANEL,REAR VJBNM<800V>
⚠ 28	87-050-016-010		AC CORD ASSY,E<EXCEPT 800V>
⚠ 28	87-050-079-010		AC CORD ASSY,E BLK<800V>
29	87-085-185-010		BUSHING,AC CORD(E) CM-22B
30	81-532-080-010		LBL,CASS-COMPT
31	82-NF5-227-010		HLDR,LOCK 2N(*)
32	82-NF5-228-010		SPR-C,LOCK
33	82-NF5-229-010		PLATE,LOCK(*)
34	82-NF5-226-010		HLDR,LOCK 1N(*)
35	80-VT1-202-010		FELT,12.5-15.5-2
36	87-085-221-010		FOOT, H 13.5
37	87-084-077-010		RIVET, NYL3.5-4.5
A	87-067-585-010		BVTT+4-6
B	87-067-584-010		BVT2+3-6 W/0 SLOT
C	87-067-703-010		BVT2+3-10 W/0 SLOT
D	87-571-032-410		VIT+2-3
E	87-078-083-010		BVTT+4-8 SWCH16A SEMS
F	82-NE8-215-010		W,4.2-6.8-0.18
G	87-078-084-010		BVTT+3-6 W/CONVEX
H	87-067-581-010		BVT2+3-15 W/0 SLOT
I	87-067-579-010		BVT2+3-8 W/0 SLOT
J	87-067-633-010		BVT2+3-8 W/O SLOT W/CONVEX
K	87-067-716-010		BVTT+3-6 BLK
L	87-591-094-410		QIT+3-6
M	87-721-097-410		QT2+3-12 W/O SLOT
N	87-067-641-010		UTT2+3-8 W/O SLOT BLK

TAPE MECHANISM EXPLODED VIEW 1/1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Ⓑ
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42 PH (DECK 1)
RPH (DECK 2)
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(DECK 2)
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(DECK 1)
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HEAD 1 C.B (DECK 1)
HEAD 2 C.B (DECK 2)
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(DECK 1)
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(DECK 2)
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29 (DECK 2)
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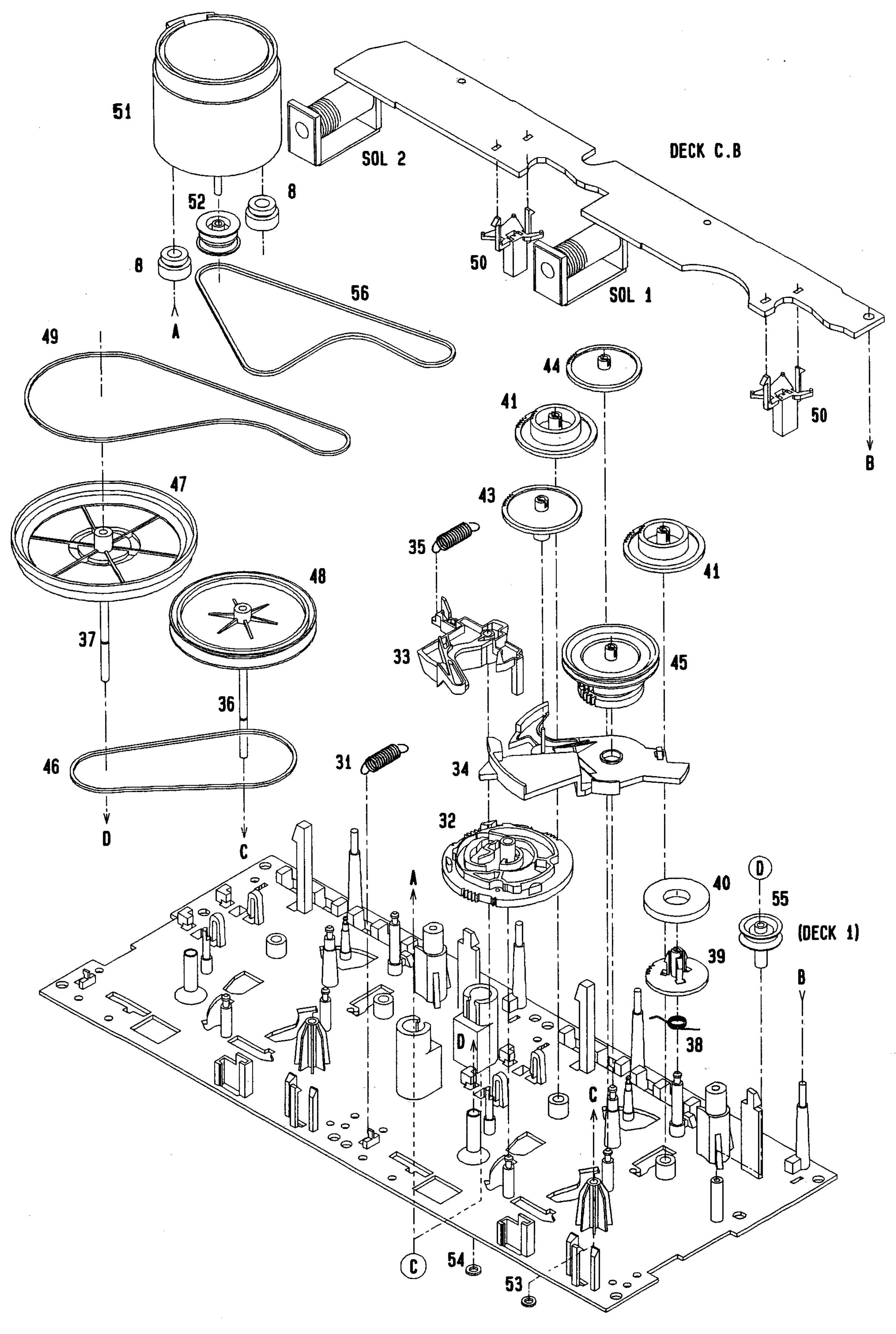
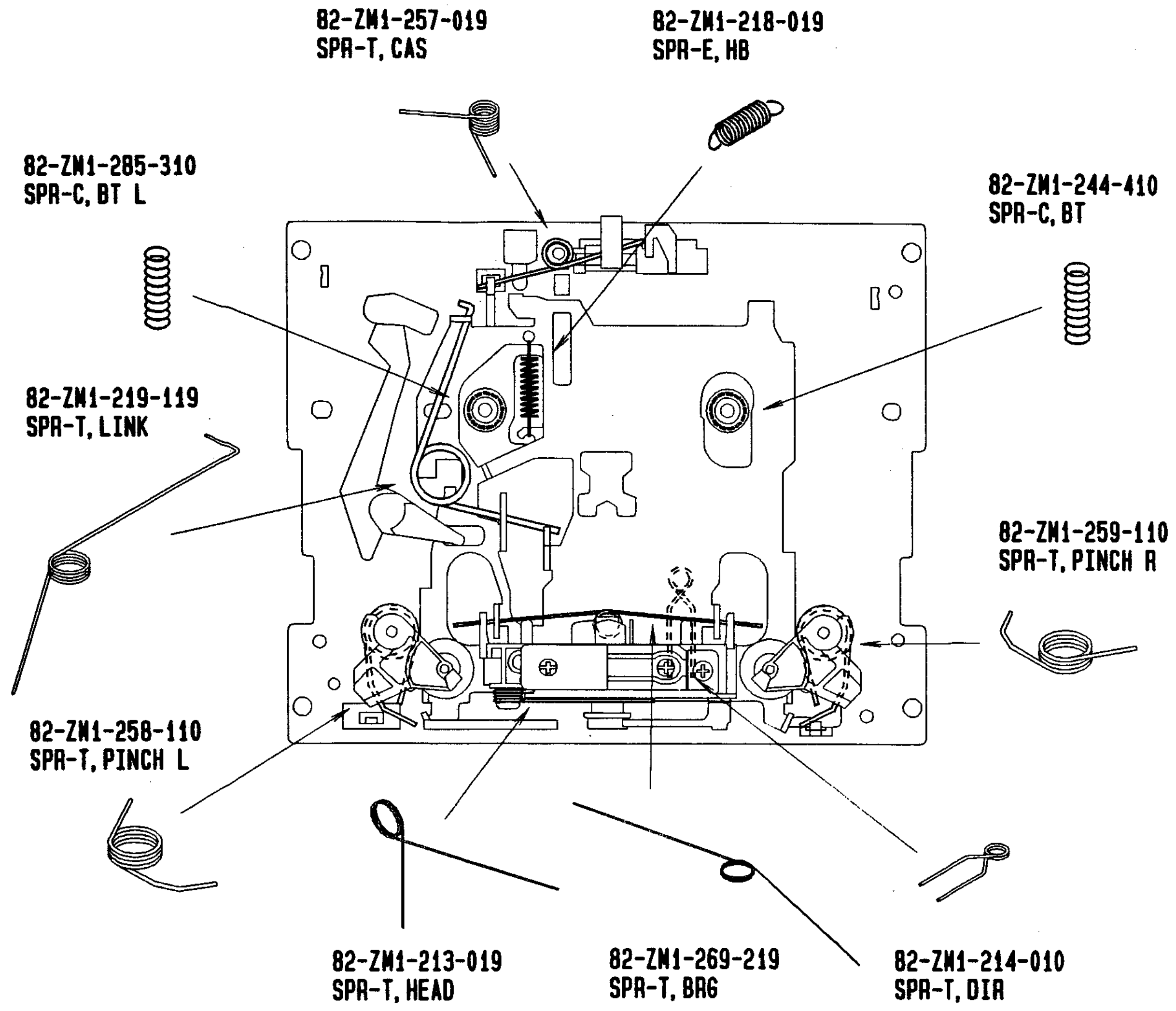


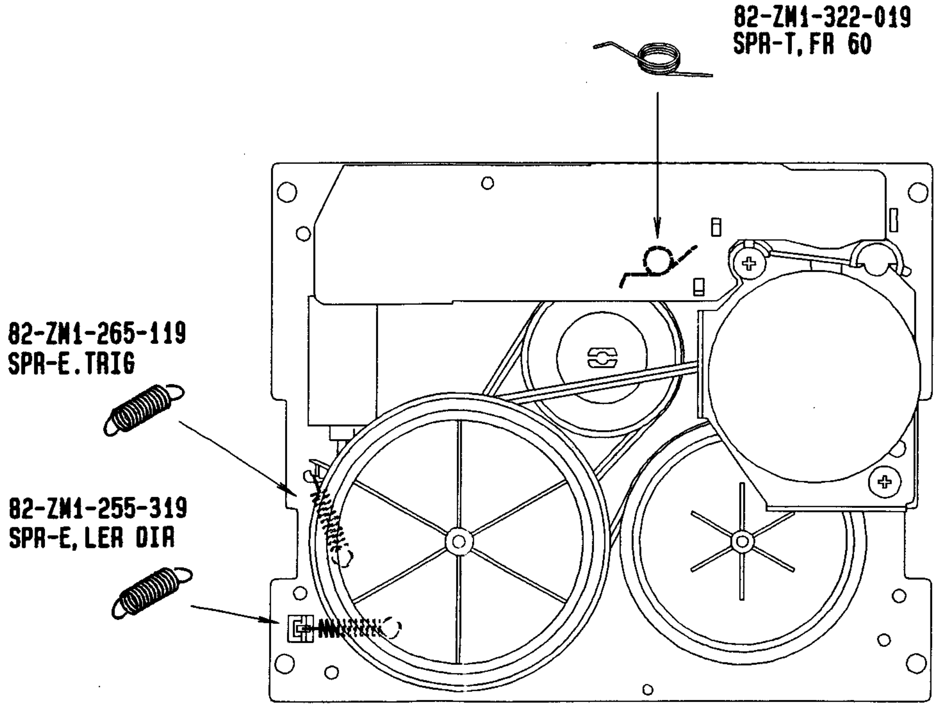
TAPE MECHANISM PARTS LIST 1/1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-345-019		LVR ASSY,PINCH L W
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	82-ZM1-283-310		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-346-019		LVR ASSY,PINCH R W
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
30	82-ZM1-298-010		SPR-P,EARTH
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-046-355-019		HEAD,PH HADKH2529B(PH)
42	87-046-356-019		HEAD,RPH HADKH5581B(RPH)
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM1-228-810		SLIP DISK ASSY
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-238-81K		FLY-WHL ASSY,R (DECK 2)
47	82-ZM3-210-71K		FLY-WHL ASSY,R2 (DECK 1)
48	82-ZM1-235-51K		FLY-WHL ASSY,L (DECK 2)
48	82-ZM3-208-61K		FLY-WHL ASSY,L2 (DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-304-110		PULLEY,COUPLER (DECK 1)
56	82-ZM3-328-110		BELT,SBU P2
57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-067-972-019		PW,1.05-3-0.25 SLT

SPRING APPLICATION POSITION

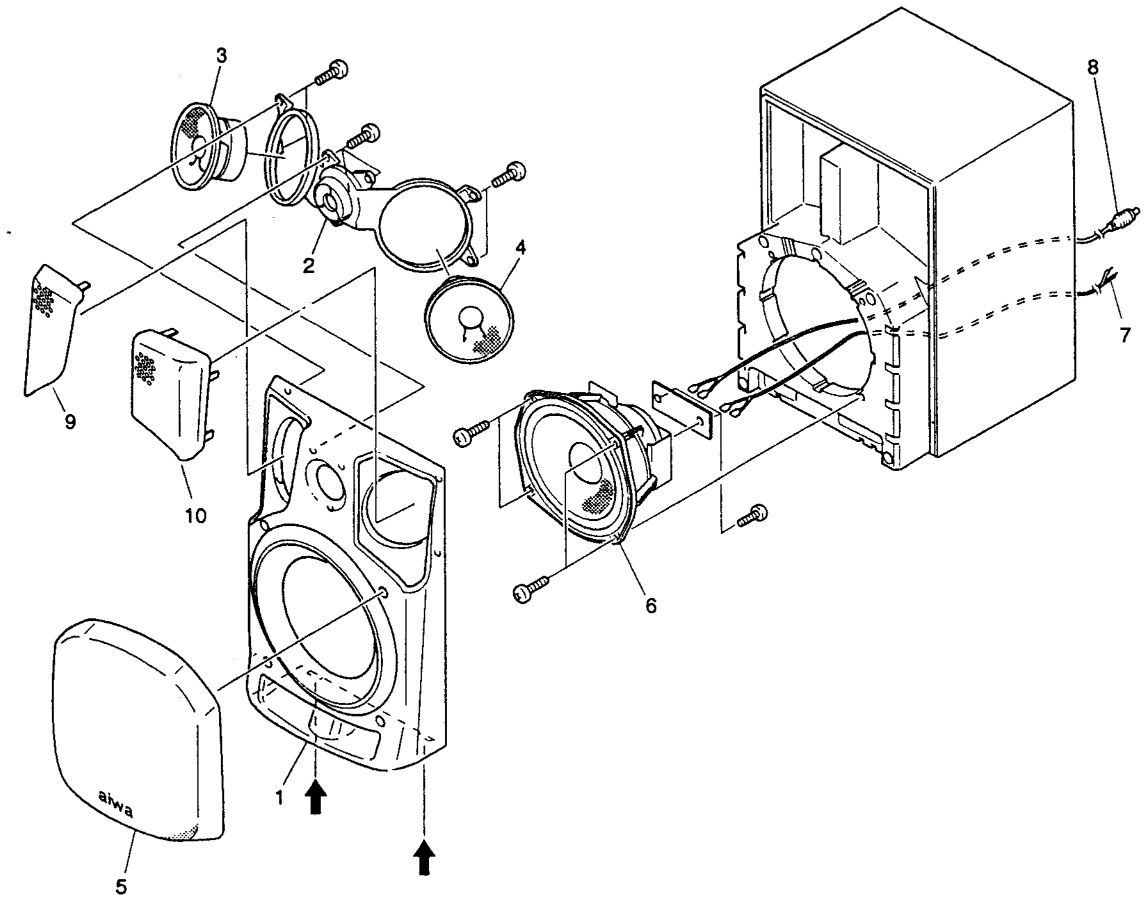

82-ZM1-257-019
SPR-T, CAS
82-ZM1-218-019
SPR-E, HB
82-ZM1-285-310
SPR-C, BT L
82-ZM1-244-410
SPR-C, BT
82-ZM1-219-119
SPR-T, LINK
82-ZM1-259-110
SPR-T, PINCH R
82-ZM1-258-110
SPR-T, PINCH L
82-ZM1-213-019
SPR-T, HEAD
82-ZM1-269-219
SPR-T, BRG
82-ZM1-214-010
SPR-T, DIR


82-ZM1-322-019
SPR-T, FR 60
82-ZM1-265-119
SPR-E.TRIG
82-ZM1-255-319
SPR-E, LER DIR

SPEAKER DISASSEMBLY INSTRUCTIONS

矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel.
Remove the screws of each speaker unit and then remove the speaker units.


1
2
3
4
5
6
7
8
9
10
aiwa

SPEAKER PARTS LIST 1/1 (SX-FNV800)

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NS5-001-019		PANEL FR
2	86-NS5-028-019		HLDR SQ ASSY
3	86-NS5-604-019		SPEAKER TWEETER
4	86-NS5-606-019		SPEAKER
5	86-NS5-007-019		GRILLE FRAME ASSY
6	86-NS5-602-019		SPEAKER WOOFER
7	83-NS5-613-019		SPEAKER CORD ASSY
8	85-NS6-611-019		SPEAKER CORD Y/B
9	86-NS5-011-019		PROTECTOR TW L
10	86-NS5-010-019		PROTECTOR TW R

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NF5-915-018		IB,E(EGFSI)NE<820EZ>
1	86-NF5-916-019		IB,V-M<V>
1	86-NF5-917-019		IB,E(EG)NE<NAP1MK3EZ>
2	85-NF5-631-018		RC-T501<V>
2	85-NF5-633-018		RC-T501<820EZ,NAP1MK3EZ>
3	87-006-225-019		AM LOOP ANT NC2
4	87-043-106-019		FM, WIRE ANT (Z)<820EZ,NAP1MK3EZ>
4	87-043-115-019		FEEDER-ANT, FM<V>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

アイワ株式会社
AIWA CO.,LTD.

9420208, 750038

Tokyo Japan

〒110 東京都台東区池之端1−2−11 ☎03（3827）3111 （代表）

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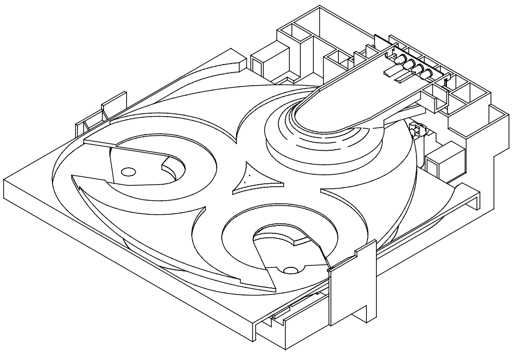
aiwa

aiwa SERVICE

4ZG-1



CD MECHANISM

- BASIC CD MECHANISM:3ZG-2 E1
- TYPE: English

SERVICE MANUAL

BASIC NAME	DERIVATION NAME					
4ZG-1	V	O	S1	D	SH	

■ This Service Manual has various derivation.Derivation name is indicated by the Service Manual for each model.

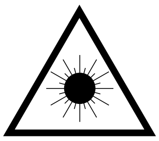
S/M Code No. 09-985-249-80T

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

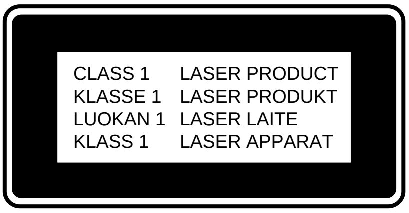
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.



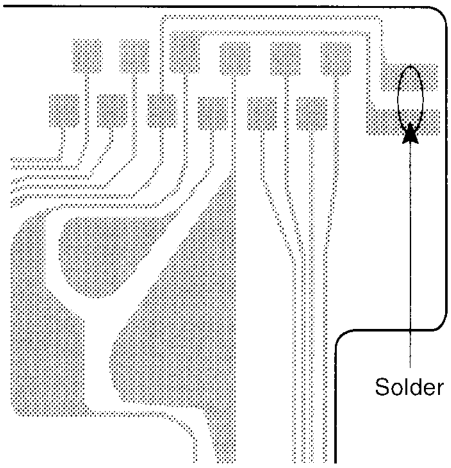
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block (KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



This is the SERVICE MANUAL for the BASIC CD MECHANISM of BASIC NAME: 4ZG-1. This BASIC NAME includes the following models as shown under the SUFFIX name: DERIVATION NAME. Please use this manual with the separate SERVICE MANUAL for DERIVATION NAME.

BASIC CD MECHANISM: 4ZG-1 VOS1DSH

SUFFIX
(DERIVATION NAME)

BASIC NAME: 4ZG-1

BASIC NAME	DERIVATION NAME							
4ZG-1	V	O	S1	D	SH	—	—	—

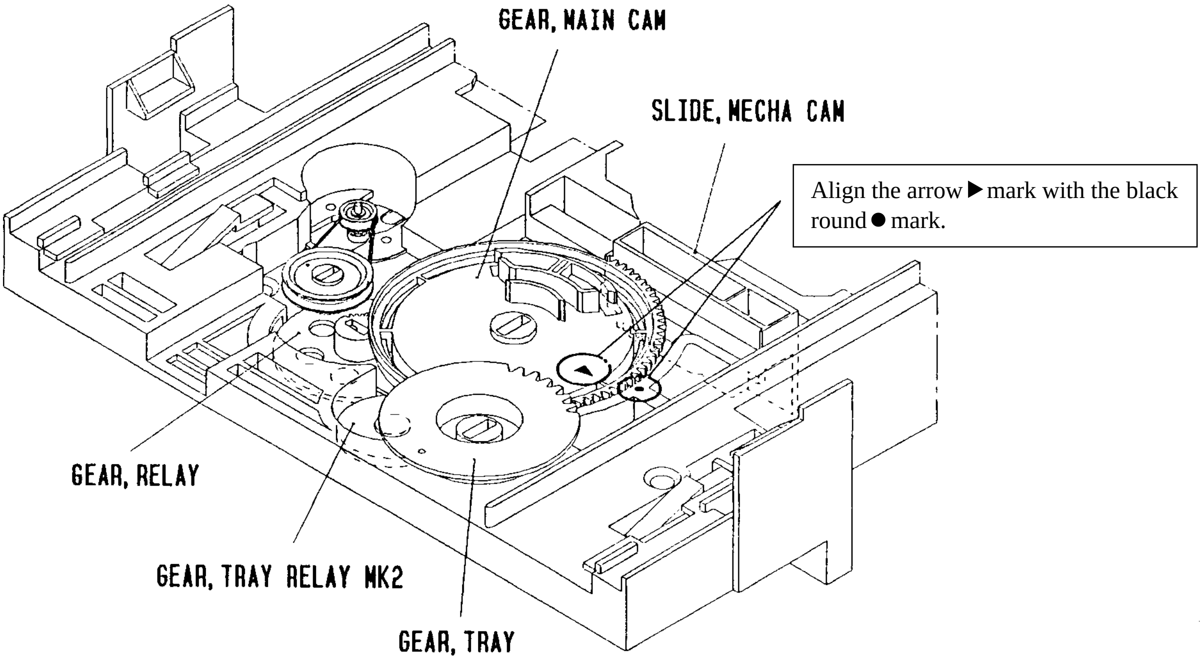
DERIVATION NAME

V: VIDEO OUT
O: On screen display
S1: THE 1st SONY IC MODEL
D: Digital output function
SH: Pick up equipped with shutter

How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.


GEAR, MAIN CAM
SLIDE, MECHA CAM
GEAR, RELAY
GEAR, TRAY RELAY MK2
GEAR, TRAY

Align the arrow ▶ mark with the black round ● mark.

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-547-010		C-IC,CXA1992AR
	87-A20-919-040		C-IC,BA5915FP
	87-A20-917-010		C-IC,CXD2540Q-1/2
	84-ZG1-697-010		C-IC,UPD78016FGC-549
	87-017-825-010		IC,GP1F32T
	87-017-760-080		IC,M51943BML
	87-A20-602-040		C-IC,M5291FP
	87-A20-925-040		C-IC,BA05FP
	87-A20-905-040		C-IC,BA033FP
	87-001-873-010		IC,LB1644
	87-A20-920-010		C-IC,CL680-D1
	87-A20-921-040		C-IC,SN74LVU04APW
	87-A20-656-040		C-IC,MB81V4260S-60/70PFTN
	84-ZG1-695-040		C-IC,LH5V2RN1
	87-A20-975-040		C-IC,SN74LV74APW
	87-A20-974-040		C-IC,LC74781M-9017
	87-A20-918-040		C-IC,SM5878AM
TRANSISTOR			
	87-026-463-080		TR,2SA933S (0.3W)
	87-026-237-080		CHIP-TR,DTC124XK
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-231-080		CHIP-TRANSISTER,DTA124XK
	87-A30-117-010		TR,2SA1357
	89-111-625-080		TR,2SA1162 (0.15W)
	87-026-580-080		C-TR,DTA123JK
	87-026-470-080		TR,HN1C03F (0.3W)
DIODE			
	87-020-027-080		CHIP-DIODE 1SS184
	87-017-024-040		C-DIODE,DA204K
	87-A40-180-040		C-DIODE,SB07-015C
	87-A40-384-080		C-ZENER,UDZ3.3B
3CD C.B			
C101	87-010-182-080		C-CAP,S 2200P-50 B
C102	87-016-669-080		C-CAP,S 0.1-25 K B
C103	87-016-669-080		C-CAP,S 0.1-25 K B
C104	87-016-669-080		C-CAP,S 0.1-25 K B
C105	87-010-404-040		CAP,E 4.7-50 SME
C106	87-016-369-080		C-CAP,S 0.033-25 B K
C107	87-010-197-080		CAP, CHIP 0.01 DM
C108	87-010-401-040		CAP,E 1-50 SME
C109	87-010-382-040		CAP,E 22-25 SME
C110	87-010-213-080		C-CAP,S 0.015-50 B
C111	87-010-263-040		CAP,E 100-10
C112	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-016-369-080		C-CAP,S 0.033-25 B K
C114	87-016-369-080		C-CAP,S 0.033-25 B K
C115	87-016-369-080		C-CAP,S 0.033-25 B K
C116	87-012-158-080		C-CAP,S 390P-50 CH
C117	87-012-154-080		C-CAP,S 150P-50 CH
C118	87-010-494-040		CAP,E 1-50 GAS
C119	87-010-152-080		C-CAP,S 8P-50 CH
C120	87-010-992-080		C-CAP,S 0.047-25 B
C121	87-010-992-080		C-CAP,S 0.047-25 B
C123	87-016-669-080		C-CAP,S 0.1-25 K B
C125	87-010-198-080		CAP, CHIP 0.022
C126	87-016-669-080		C-CAP,S 0.1-25 K B
C127	87-010-555-040		CAP,E 100-10 GAS
C130	87-010-555-040		CAP,E 100-10 GAS
C131	87-010-555-040		CAP,E 100-10 GAS
C132	87-010-178-080		CHIP CAP 1000P
C133	87-010-555-040		CAP,E 100-10 GAS
C134	87-010-196-080		CHIP CAPACITOR,0.1-25
C135	87-010-196-080		CHIP CAPACITOR,0.1-25
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C137	87-010-196-080		CHIP CAPACITOR,0.1-25
C138	87-010-182-080		C-CAP,S 2200P-50 B
C139	87-010-197-080		CAP, CHIP 0.01 DM
C140	87-010-112-040		CAP,E 100-16
C141	87-010-196-080		CHIP CAPACITOR,0.1-25
C142	87-010-196-080		CHIP CAPACITOR,0.1-25
C143	87-010-213-080		C-CAP,S 0.015-50 B
C151	87-010-263-040		CAP,E 100-10
C152	87-010-197-080		CAP, CHIP 0.01 DM
C153	87-A10-893-040		CAP,E 220-10 M PW
C154	87-010-197-080		CAP, CHIP 0.01 DM
C155	87-010-184-080		CHIP CAPACITOR 3300P(K)
C156	87-010-992-080		C-CAP,S 0.047-25 B
C157	87-010-992-080		C-CAP,S 0.047-25 B
C158	87-012-156-080		C-CAP,S 220P-50 CH
C159	87-016-526-080		C-CAP,S 0.47-16 BK
C160	87-010-314-080		C-CAP,S 22P-50V
C161	87-010-182-080		C-CAP,S 2200P-50 B
C162	87-010-178-080		CHIP CAP 1000P
C201	87-016-669-080		C-CAP,S 0.1-25 K B
C204	87-010-197-080		CAP, CHIP 0.01 DM
C205	87-010-379-040		CAP,E 22-16 M SME
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-016-669-080		C-CAP,S 0.1-25 K B
C211	87-010-263-040		CAP,E 100-10
C213	87-010-190-080		S CHIP F 0.01
C214	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-016-251-040		CAP,E 220-16 SMG
C302	87-012-140-080		CAP 470P
C303	87-010-178-080		CHIP CAP 1000P
C304	87-010-384-040		CAP,E 100-25 SME
C305	87-010-982-040		CAP,E 33-25 GAS
C306	87-010-112-040		CAP,E 100-16
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C308	87-010-263-040		CAP,E 100-10
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-263-040		CAP,E 100-10
C311	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-178-080		CHIP CAP 1000P
C320	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-016-044-040		CAP,E 100-16 GAS
C402	87-010-190-080		S CHIP F 0.01
C403	87-010-190-080		S CHIP F 0.01
C501	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-154-080		CAP CHIP 10P
C505	87-010-154-080		CAP CHIP 10P
C506	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-010-263-040		CAP,E 100-10
C509	87-016-669-080		C-CAP,S 0.1-25 K B
C510	87-010-263-040		CAP,E 100-10
C511	87-016-669-080		C-CAP,S 0.1-25 K B
C512	87-010-197-080		CAP, CHIP 0.01 DM
C513	87-010-197-080		CAP, CHIP 0.01 DM
C514	87-010-197-080		CAP, CHIP 0.01 DM
C518	87-010-322-080		C-CAP,S 100P-50 CH
C519	87-012-145-080		CAP, CHIP S 270P CH
C520	87-012-157-080		C-CAP,S 330P-50 CH
C521	87-012-154-080		C-CAP,S 150P-50 CH
C522	87-010-371-080		CAP, ELECT 470-6.3V
C523	87-010-197-080		CAP, CHIP 0.01 DM
C524	87-010-197-080		CAP, CHIP 0.01 DM
C525	87-010-197-080		CAP, CHIP 0.01 DM
C526	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C527	87-010-197-080		CAP, CHIP 0.01 DM
C528	87-010-197-080		CAP, CHIP 0.01 DM
C529	87-010-197-080		CAP, CHIP 0.01 DM
C530	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-197-080		CAP, CHIP 0.01 DM
C532	87-010-374-040		CAP,E 47-10
C533	87-010-197-080		CAP, CHIP 0.01 DM
C534	87-010-555-040		CAP,E 100-10 GAS
C535	87-010-197-080		CAP, CHIP 0.01 DM
C536	87-010-078-040		CAP,E 47-6.3 5L
C537	87-010-197-080		CAP, CHIP 0.01 DM
C538	87-010-196-080		CHIP CAPACITOR,0.1-25
C539	87-016-669-080		C-CAP,S 0.1-25 K B
C540	87-010-078-040		CAP,E 47-6.3 5L
C541	87-010-197-080		CAP, CHIP 0.01 DM
C542	87-010-318-080		C-CAP,S 47P-50 CH
C544	87-010-197-080		CAP, CHIP 0.01 DM
C546	87-010-197-080		CAP, CHIP 0.01 DM
C549	87-010-494-040		CAP,E 1-50 GAS
C550	87-010-196-080		CHIP CAPACITOR,0.1-25
C551	87-012-153-080		C-CAP,S 120P-50 CH
C552	87-016-526-080		C-CAP,S 0.47-16 BK
C554	87-010-197-080		CAP, CHIP 0.01 DM
C556	87-010-378-040		CAP,E 10-16
C557	87-010-316-080		C-CAP,S 33P-50 CH
C558	87-010-315-080		C-CAP,S 27P-50 CH
C560	87-010-197-080		CAP, CHIP 0.01 DM
C601	87-010-197-080		CAP, CHIP 0.01 DM
C602	87-010-197-080		CAP, CHIP 0.01 DM
C603	87-010-112-040		CAP,E 100-16
C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C605	87-010-197-080		CAP, CHIP 0.01 DM
C606	87-010-197-080		CAP, CHIP 0.01 DM
C607	87-010-313-080		CAP, CHIP 18P
C608	87-010-313-080		CAP, CHIP 18P
C609	87-010-178-080		CHIP CAP 1000P
C610	87-010-178-080		CHIP CAP 1000P
C611	87-010-178-080		CHIP CAP 1000P
C612	87-010-178-080		CHIP CAP 1000P
C613	87-010-403-040		CAP,E 3.3-50 SME
C614	87-010-403-040		CAP,E 3.3-50 SME
C615	87-010-318-080		C-CAP,S 47P-50 CH
C616	87-010-318-080		C-CAP,S 47P-50 CH
CN101	87-A60-424-010		CONN,16P V TOC-B
CN102	87-099-199-010		CONN,6P 6216 H
CN401	87-099-212-010		CONN,5P 6216 V
CN403	87-099-030-010		CONN,13P 6216H
J501	87-009-502-010		JACK,PIN 1P Y EARTH
L101	87-005-196-080		COIL,10UH
L301	87-A50-095-010		COIL,68UH RCR875D
L302	87-005-426-080		COIL,3.3UH K FLR50
L502	87-005-204-080		COIL,47UH
L503	87-005-189-080		COIL 2.7UH
L504	87-005-187-080		COIL,1.8UH
L505	87-005-204-080		COIL,47UH
L506	87-005-204-080		COIL,47UH
L507	87-005-204-080		COIL,47UH
L508	87-005-817-080		C-COIL, 33UH J FLC32
M401	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
R130	87-022-364-080		C-RES,S 82K-1/10W F
R131	87-022-364-080		C-RES,S 82K-1/10W F
R132	87-022-364-080		C-RES,S 82K-1/10W F
R133	87-022-364-080		C-RES,S 82K-1/10W F
R134	87-022-364-080		C-RES,S 82K-1/10W F
R135	87-022-364-080		C-RES,S 82K-1/10W F
R507	87-A00-408-080		C-RES,S 2K-1/10W D
S201	87-A90-162-010		SW,SL 1-1-3 SSSU
S401	87-036-109-010		PUSH SWITCH
S402	87-036-109-010		PUSH SWITCH
W1	84-ZG1-673-010		F-CABLE,5P 1.25 210MM BLACK N
W2	85-NFT-611-110		FF-CABLE 16P-1.0
W3	84-ZG1-630-010		CABLE FFC 6P-1.25
X201	87-A70-124-080		VIB,CER 8.0MHZ
X501	87-A70-125-080		VIB,XTAL 27MHZ 50PPM
X601	87-030-270-080		VIB,XTAL 16.9344MHZ

LED C.B

LED401	87-070-200-080		LED,SLP636C-81-S-T1
LED402	87-017-350-080		LED,SEL1550CM
LED403	87-017-350-080		LED,SEL1550CM
LED404	87-070-200-080		LED,SLP636C-81-S-T1

T-T C.B

C401	87-018-214-080		CAP TC U 0.1-50F
CON401	86-NFZ-675-010		CONN,5P H 6216-11H
PS401	87-026-573-010		IC,GP1S53V

DRIVE C.B

CN3	87-009-349-010		CONN,6P H WHT PH
M20	87-045-358-010		MOT,RF-310TA 43
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW-17310MVPO

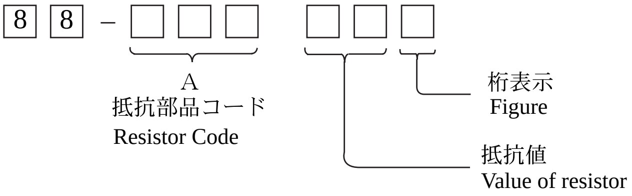
CD MOTOR C.B

CN4	87-099-210-010		CONN,5P H BLK 6216
M1	87-045-305-010		MOT,RF-500TB
SW1	87-035-110-010		SW,MICRO SPPB62
SW2	87-035-110-010		SW,MICRO SPPB62

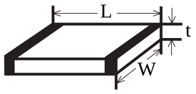
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

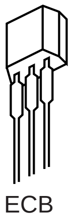
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding


8
8
–
A
抵抗部品コード
Resistor Code
桁表示
Figure
抵抗値
Value of resistor

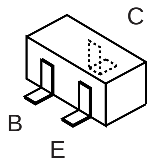
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm)				抵抗コード : A Resistor Code : A
				外形 / Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

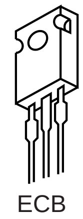
TRANSISTOR ILLUSTRATION



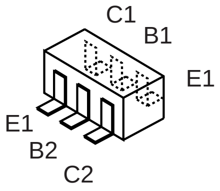
2SA933S



2SA1162
2SC2712
DTA123JK
DTA124XK
DTC124XK

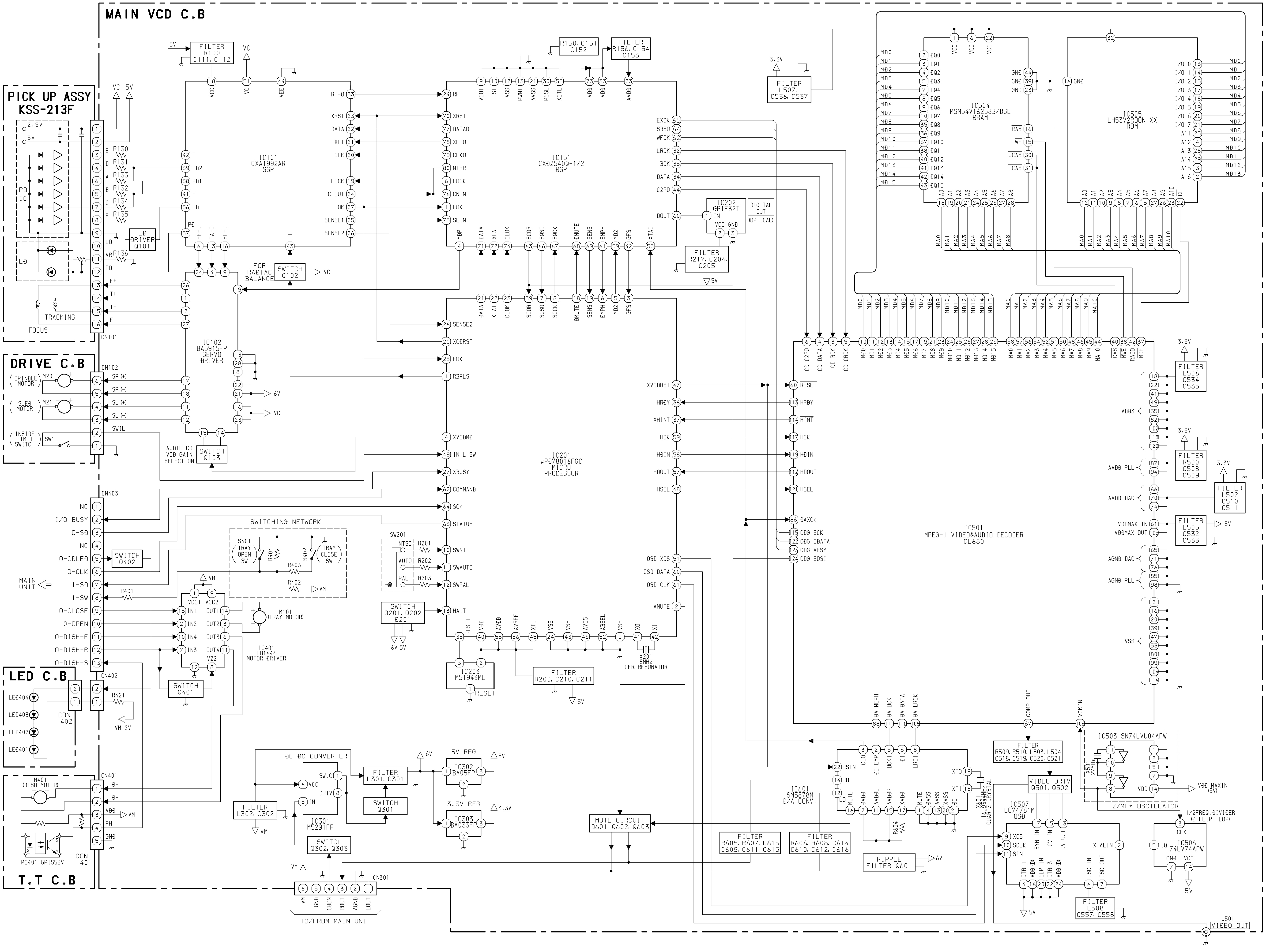


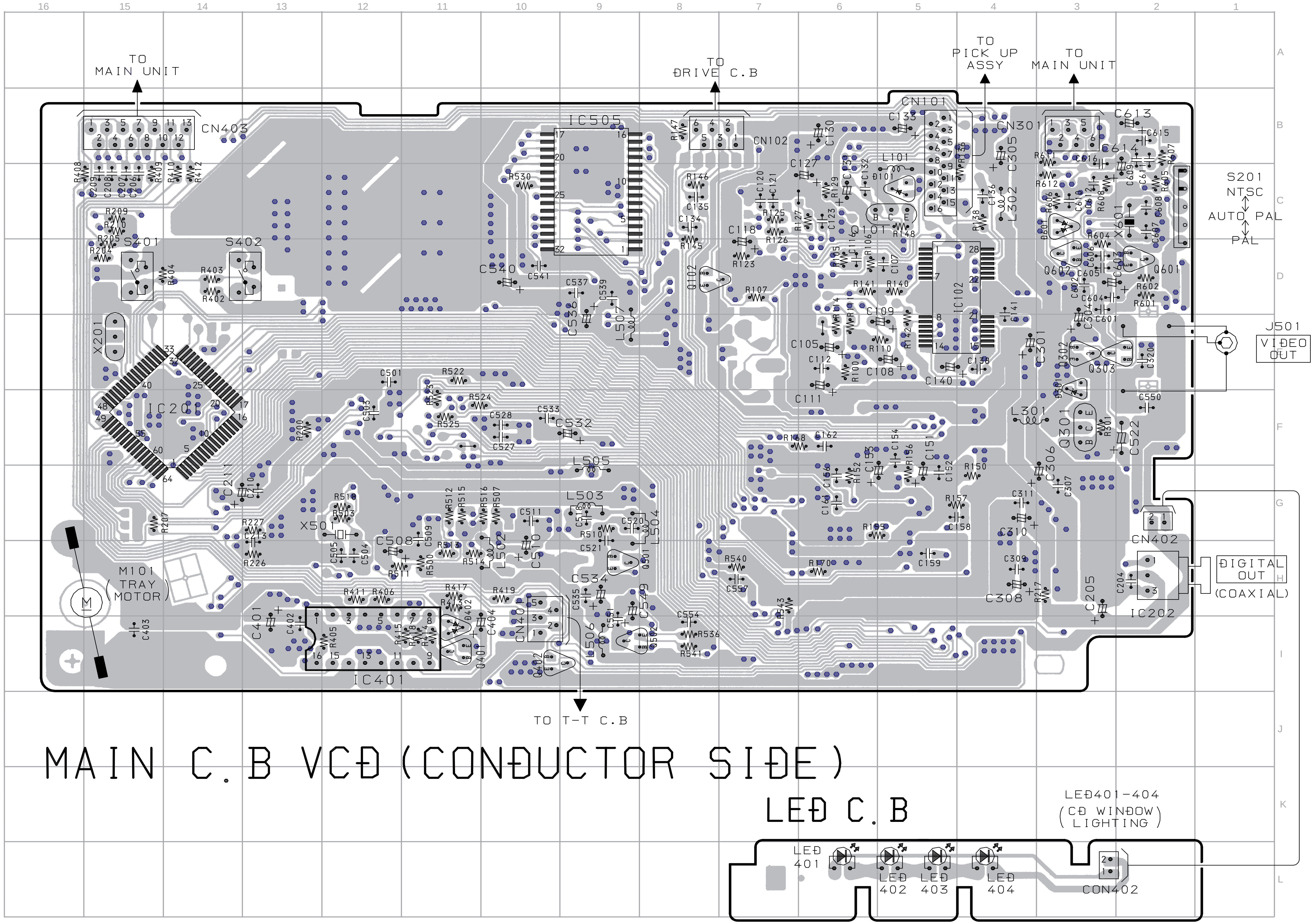
2SA1357


C1
B1
E1
E1
B2
C2

HN1C03F

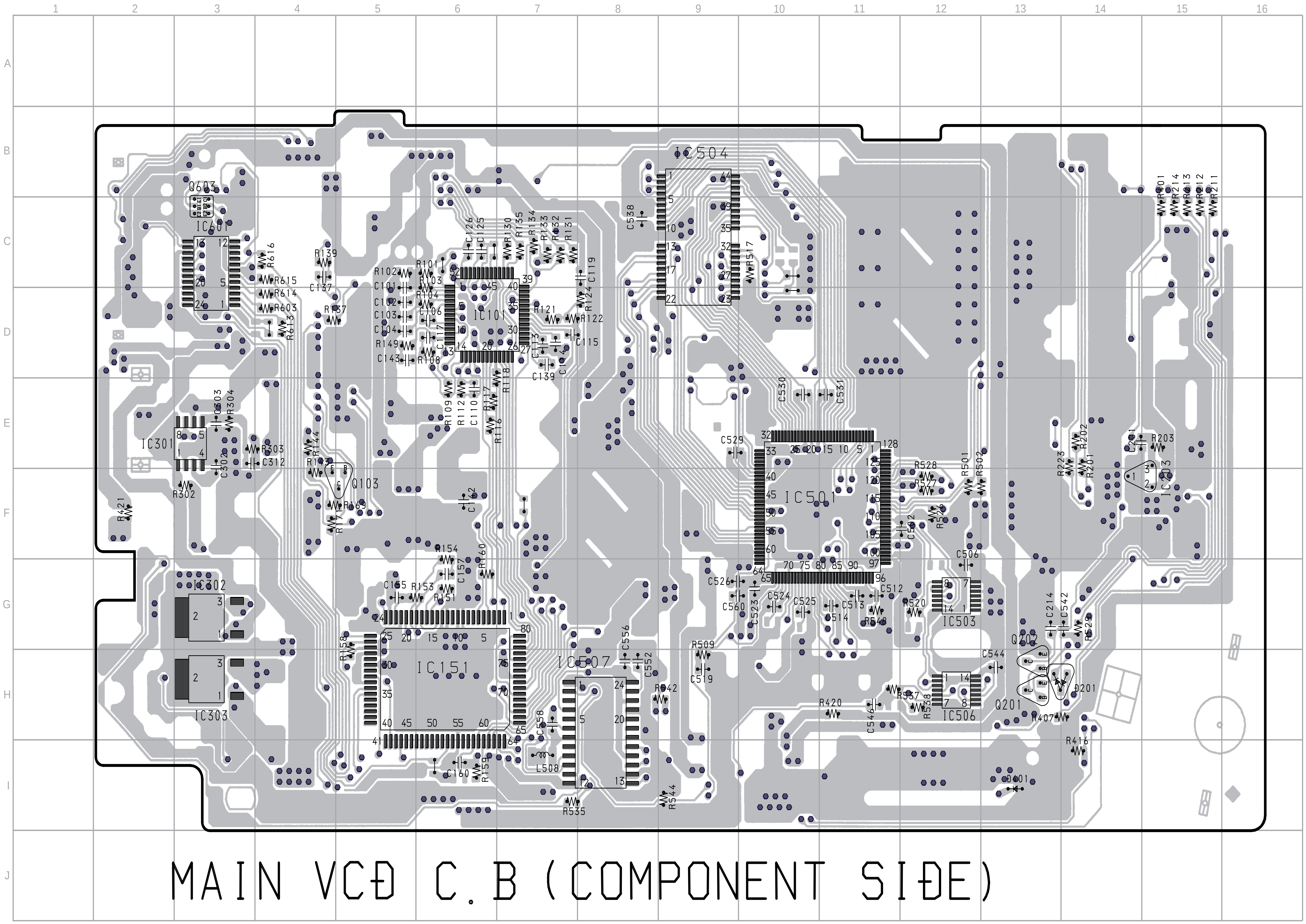
BLOCK DIAGRAM


MAIN VCD C.B
PICK UP ASSY
KSS-213F
PD IC
LD
TRACKING
FOCUS
CN101
LD DRIVER Q101
DRIVE C.B
CN102
SPINDLE MOTOR M20
SLED MOTOR M21
INSIDE LIMIT SWITCH SW1
SP (+)
SP (-)
SL (+)
SL (-)
SWIL
FILTER R100 C111, C112
IC101 CXA1992AR SSP
IC102 BA5915FP SERVO DRIVER
SWITCH Q102
FOR RADIAC BALANCE
AUDIO CD VCD GAIN SELECTION
SWITCH Q103
R150, C151 C152
FILTER R156, C154 C153
IC151 CXD2540Q-1/2 DSP
IC202 GP1F32T
DIGITAL OUT (OPTICAL)
FILTER R217, C204, C205
IC201 μPD78016FGC MICRO PROCESSOR
IC203 M51943ML
FILTER R200, C210, C211
X201 8MHz CER. RESONATOR
CN403
NC
I/O BUSY
O-SD
O-CDLED
O-CLK
I-SD
I-SW
O-CLOSE
O-OPEN
O-DISH-F
O-DISH-R
O-DISH-S
MAIN UNIT
SWITCH Q402
SWITCHING NETWORK
S401 TRAY OPEN SW
S402 TRAY CLOSE SW
R401
R402
R403
R404
IC401 LB1644 MOTOR DRIVER
M101 (TRAY MOTOR)
SWITCH Q401
SW201
NTSC
AUTO
PAL
R201
R202
R203
SWITCH Q201, Q202 D201
LED C.B
LED401
LED402
LED403
LED404
CON 402
CN402
R421
VM 2V
T.T C.B
M401 (DISH MOTOR)
PS401 GP1S53V
CON 401
CN401
DC-DC CONVERTER
IC301 M5291FP
FILTER L301, C301
SWITCH Q301
FILTER L302, C302
SWITCH Q302, Q303
5V REG
IC302 BA05FP
3.3V REG
IC303 BA033FP
CN301
VM GND CDON ROUT AGND LOUT
TO/FROM MAIN UNIT
MUTE CIRCUIT D601, Q602, Q603
FILTER L507, C536, C537
IC504 MSM54V16258B/BSL DRAM
IC505 LH53V2R00N-XX ROM
FILTER L506 C534 C535
FILTER R500 C508 C509
FILTER L502 C510 C511
FILTER L505 C532 C533
IC501 MPEG-1 VIDEO&AUDIO DECODER CL680
VDD3
AVDD PLL
AVDD DAC
VDDMAX IN
VDDMAX OUT
AGND DAC
AGND PLL
VSS
COMP OUT
VCKIN
FILTER R509, R510, L503, L504 C518, C519, C520, C521
IC503 SN74LVU04APW
X501 27MHz
27MHz OSCILLATOR
VDD MAXIN (5V)
IC601 SM5878M D/A CONV.
X601 16.934MHz QUARTZ CRYSTAL
VIDEO DRIV Q501, Q502
IC507 LC74781M OSD
FILTER R605, R607, C613 C609, C611, C615
FILTER R606, R608, C614 C610, C612, C616
RIPPLE FILTER Q601
FILTER L508 C557, C558
1/2FREQ. DIVIDER (D-FLIP FLOP)
IC506 74LV74APW
J501 VIDEO OUT


16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J
K
L
TO
MAIN UNIT
CN403
IC505
TO
DRIVE C.B
CN102
TO
PICK UP
ASSY
CN101
TO
MAIN UNIT
CN301
C613
S201
NTSC
AUTO PAL
PAL
J501
VIDEO
OUT
S401
S402
X201
IC201
C540
IC102
Q101
Q601
Q602
Q303
Q301
L301
C522
CN402
DIGITAL
OUT
(COAXIAL)
IC202
C205
X501
C508
L505
L503
L504
L502
C534
CN401
L506
M101
TRAY
MOTOR
IC401
C401
TO T-T C.B
LED401-404
(CD WINDOW
LIGHTING)
LED
401
LED
402
LED
403
LED
404
CON402

MAIN C.B VCD (CONDUCTOR SIDE)

LED C.B


1
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3
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5
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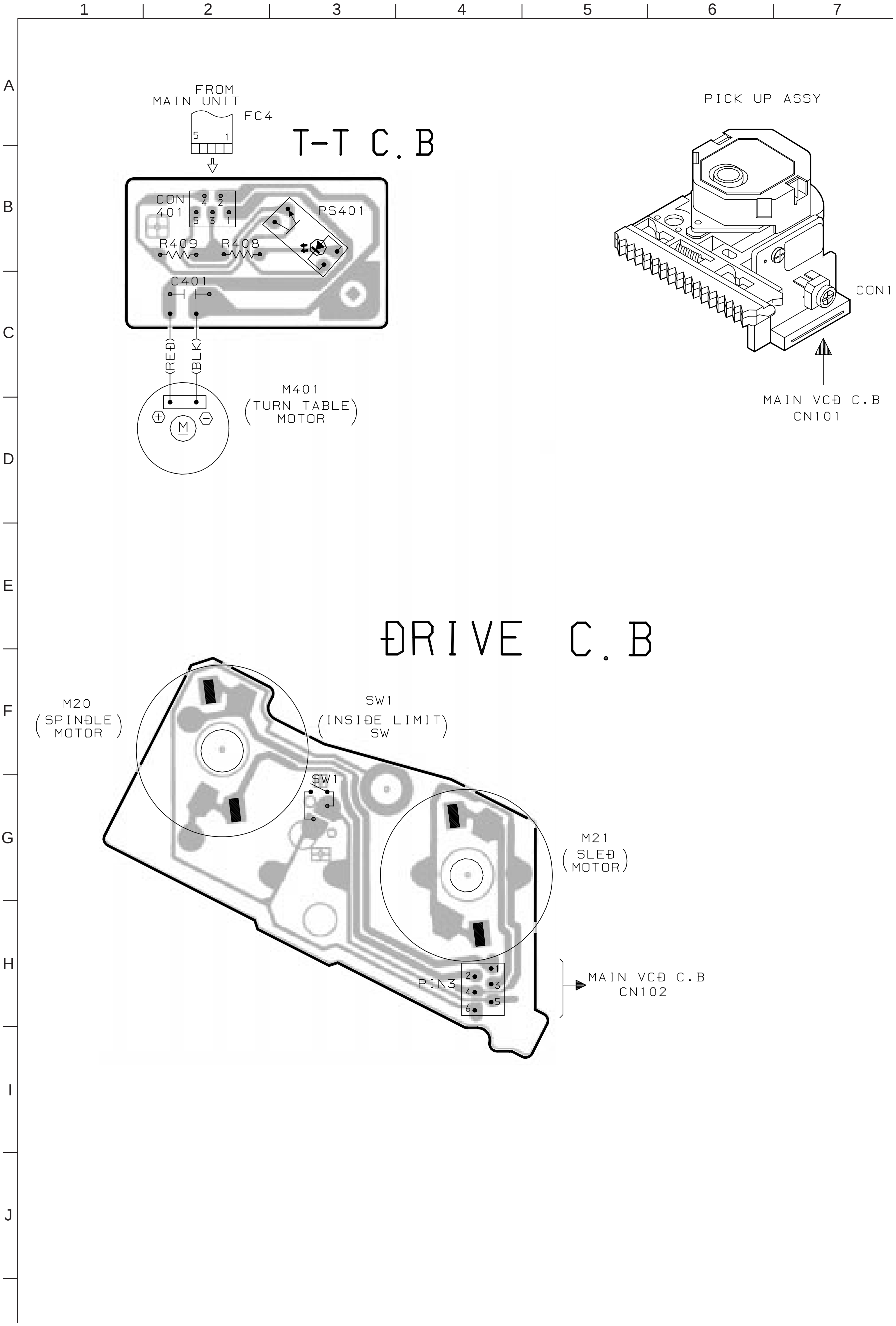
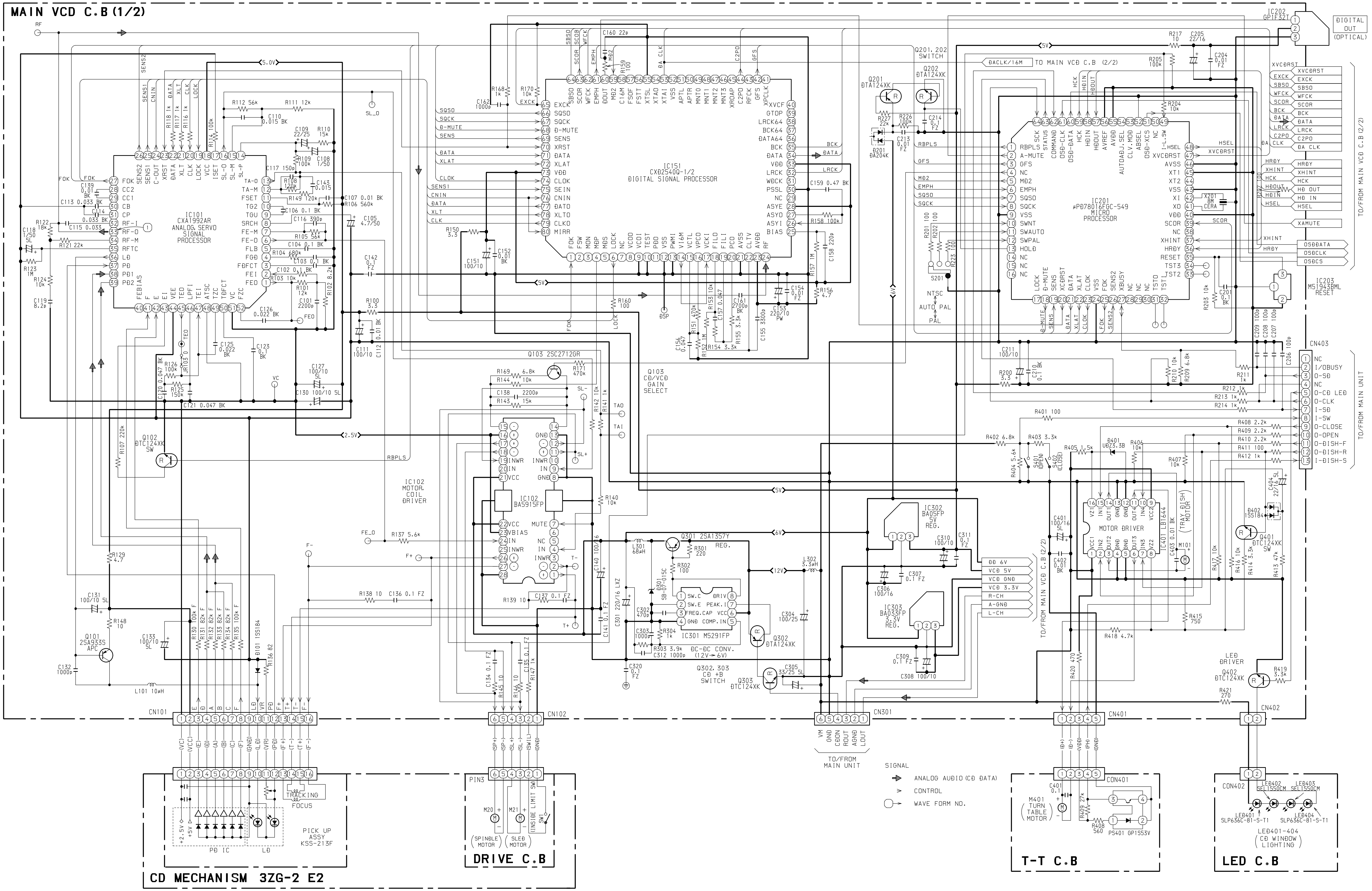
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
IC504
IC601
Q603
IC101
IC301
IC302
IC303
Q103
IC151
IC507
IC501
IC503
IC506
Q202
Q201
Q203
D201
D601
L508
C538
R517
C530
C531
C529
R528
R527
R501
R502
R529
C532
C506
C526
C560
C523
C524
C525
C513
C514
C512
R520
R548
R509
C519
R542
R544
R535
R420
C546
R537
R538
C544
C214
C542
R223
R202
R201
C201
R203
R407
R416
R201
R214
R213
R212
R211
R616
R615
R614
R603
R613
C303
R304
R303
C312
C302
R302
R421
R139
C137
R137
R144
R143
R169
R171
R101
R102
R103
R104
C101
C102
C103
C104
C106
C117
R149
C143
R108
C126
C125
R130
R135
R134
R133
R132
R131
C119
R124
R121
R122
C113
C114
C115
C139
R109
R112
C110
R117
R116
R118
C112
R154
R160
C157
C155
R153
R151
R158
R159
C160
C558
C556
C552

MAIN VCD C.B (COMPONENT SIDE)

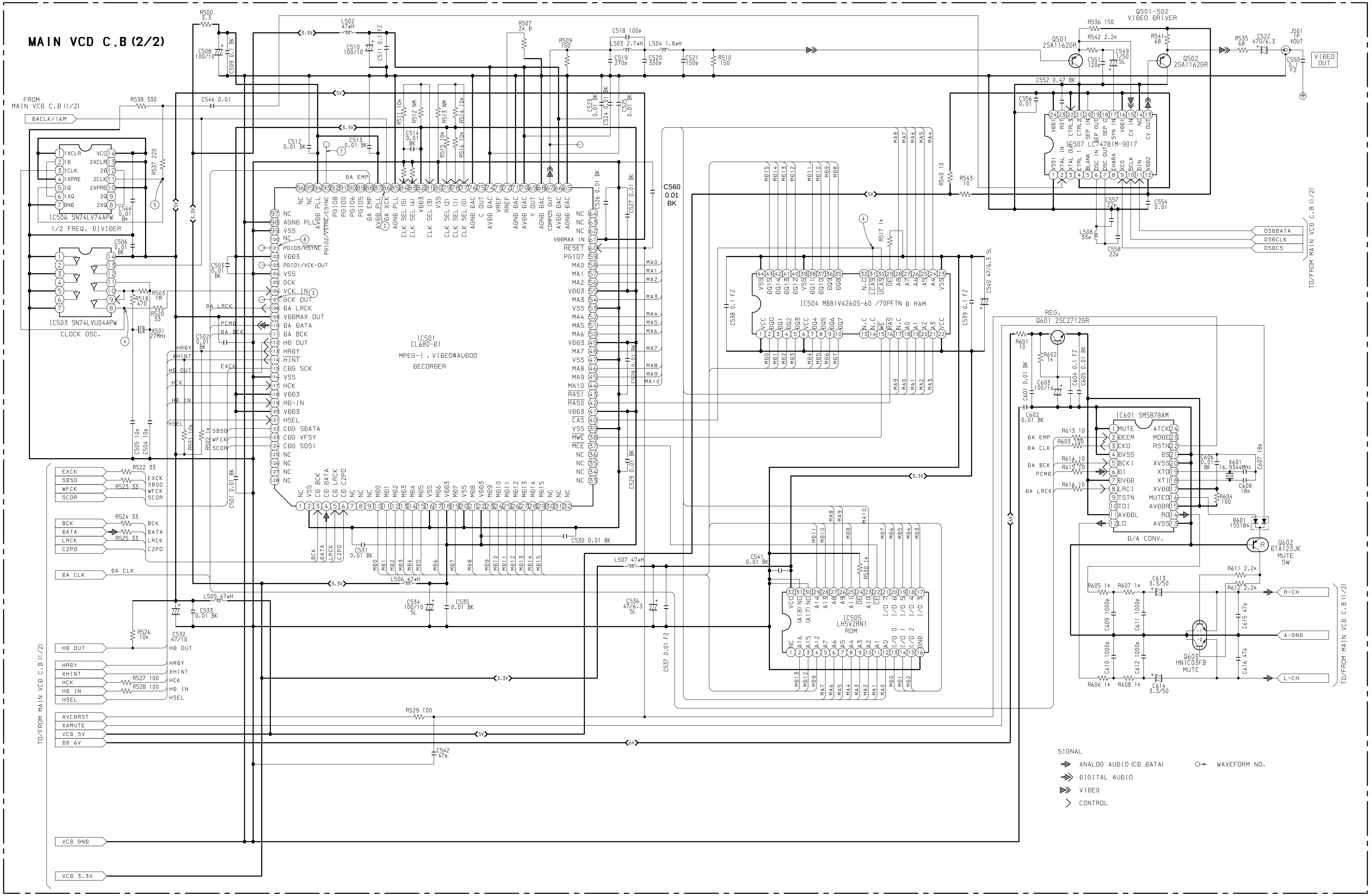
WIRING-3


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
FROM MAIN UNIT
FC4
5
1
T-T C.B
CON 401
4
2
5
3
1
PS401
R409
R408
C401
(RED)
(BLK)
M401
(TURN TABLE MOTOR)
+
M
−
PICK UP ASSY
CON1
MAIN VCD C.B
CN101
DRIVE C.B
M20
(SPINDLE MOTOR)
SW1
(INSIDE LIMIT SW)
SW1
M21
(SLED MOTOR)
PIN3
1
2
3
4
5
6
MAIN VCD C.B
CN102

SCHEMATIC DIAGRAM-1


MAIN VCD C.B (1/2)
IC101 CXA1992AR ANALOG SERVO SIGNAL PROCESSOR
IC151 CXD2540Q-1/2 DIGITAL SIGNAL PROCESSOR
IC201 μPD78016FGC-549 MICRO PROCESSOR
IC202 GP1F32T
DIGITAL OUT (OPTICAL)
IC203 M51943BML RESET
IC102 BA5915FP
IC102 MOTOR COIL DRIVER
IC301 M5291FP
DC-DC CONV. (12V→6V)
IC302 BA05FP 5V REG.
IC303 BA033FP 3.3V REG.
IC401 LB1644 MOTOR DRIVER
Q101 2SA933S APC
Q102 DTC124XK SW
Q103 2SC2712GR
Q103 CD/VCD GAIN SELECT
Q201, 202 SWITCH
Q201 DTA124XK
Q202 DTA124XK
Q301 2SA1357Y REG.
Q302 DTA124XK
Q302, 303 CD +B SWITCH
Q303 DTC124XK
Q401 DTC124XK SW
Q402 DTC124XK
LED DRIVER
TO MAIN VCD C.B (2/2)
TO/FROM MAIN VCD C.B (2/2)
TO/FROM MAIN UNIT
CN101
CN102
CN301
CN401
CN402
CN403
SIGNAL
ANALOG AUDIO (CD DATA)
CONTROL
WAVE FORM NO.
TRACKING
FOCUS
PICK UP ASSY KSS-213F
PD IC
LD
CD MECHANISM 3ZG-2 E2
SPINDLE MOTOR
SLED MOTOR
(INSIDE LIMIT SW)
DRIVE C.B
M401 TURN TABLE MOTOR
PS401 GP1S53V
CON401
T-T C.B
CON402
LED401 SLP636C-81-5-T1
LED402 SEL1550CM
LED403 SEL1550CM
LED404 SLP636C-81-5-T1
LED401-404 (CD WINDOW LIGHTING)
LED C.B

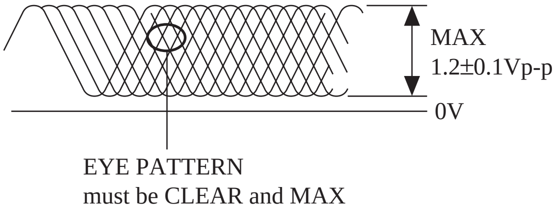
SCHEMATIC DIAGRAM-2


MAIN VCD C.B (2/2)
FROM MAIN VCD C.B (1/2)
DACLK/16M
IC506 SN74LV74APW
1/2 FREQ. DIVIDER
IC503 SN74LVU04APW
CLOCK OSC.
X501 27MHz
IC501 CL680-D1
MPEG-1 . VIDEO&AUDIO DECORDER
IC504 MB81V4260S-60 /70PFTN D RAM
IC505 LH5V2RN1 ROM
IC507 LC74781M-9017
Q501-502 VIDEO DRIVER
Q501 2SA1162GR
Q502 2SA1162GR
J501 1P VOUT
VIDEO OUT
REG. Q601 2SC2712GR
IC601 SM5878AM
D/A CONV.
X601 16.9344MHz
D601 1SS184
Q602 DTA123JK MUTE SW
Q603 HN1C03FB MUTE
R-CH
A-GND
L-CH
OSDDATA
OSDCLK
OSDCS
TO/FROM MAIN VCD C.B (1/2)
EXCK
SBSO
WFCK
SCOR
BCK
DATA
LRCK
C2PO
DA CLK
HD OUT
HRDY
XHINT
HCK
HD IN
HSEL
XVCDRST
XAMUTE
VCD 5V
DD 6V
VCD GND
VCD 3.3V
C560 0.01 BK
SIGNAL
ANALOG AUDIO (CD DATA)
DIGITAL AUDIO
VIDEO
CONTROL
WAVEFORM NO.

WAVE FORM

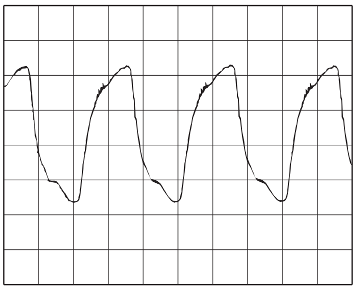
①

IC101 Pin ㉝ (RF-O)
VOLT/DIV: 200mV
TIME/DIV: 0.5µS



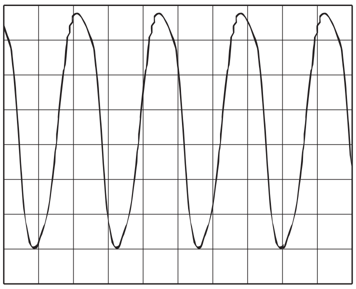
②

IC501 Pin (86) DA XCK
16.93MHz
VOLT/DIV: 1V
TIME/DIV: 20nS



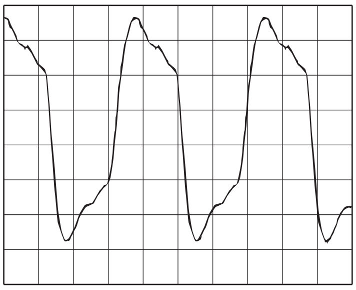
③

IC501 Pin (107) GCK OUT
42.3MHz
VOLT/DIV: 1V
TIME/DIV: 10nS



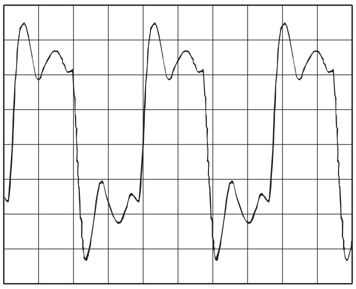
④

IC503 Pin ⑧ 33 VCK
27MHz±1.35kHz
VOLT/DIV: 1V
TIME/DIV: 10nS



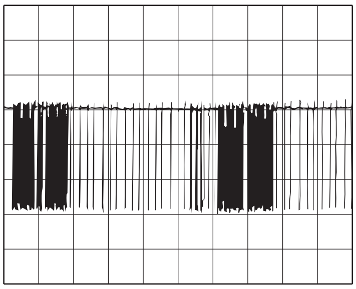
⑤

IC506 Pin ⑪ OSD CLK
13.5MHz±675Hz
VOLT/DIV: 1V
TIME/DIV: 20nS



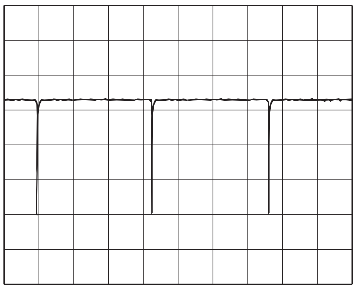
⑥

IC504 Pin ㉚ $\overline{\text{UCAS}}$
(Pin ㉛ $\overline{\text{LCAS}}$)
VOLT/DIV: 1V
TIME/DIV: 2µS



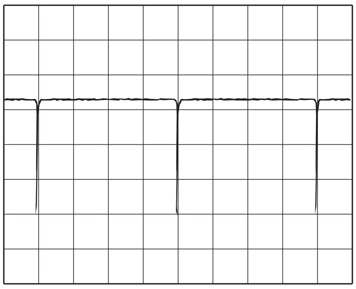
⑦

IC501 Pin (93) $\overline{\text{VSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 5mS



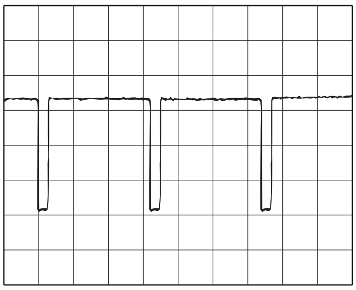
⑧

IC501 Pin (93) $\overline{\text{VSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 5mS

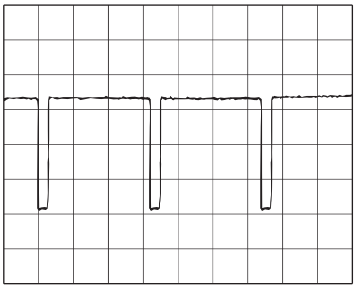


⑧

IC501 Pin (101) $\overline{\text{HSync}}$
PAL
VOLT/DIV: 1V
TIME/DIV: 20µS



IC501 Pin (101) $\overline{\text{HSync}}$
NTSC
VOLT/DIV: 1V
TIME/DIV: 20µS



IC DESCRIPTION
IC, CXA1992AR

Pin No.	Pin Name	I/O	Description
1	FEO	O	Output terminal for focus error amplifier. Internally connected to window comparator input for bias condition.
2	FEI	I	Input terminal for focus error.
3	FDFCT	I	Capacitor connection terminal for time constant used when there is defect.
4	FGD	I	This pin is connected to GND via capacitor when high frequency gain of the focus servo is attenuated.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FE_O	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TA_M	I	Tracking amplifier inverted input pin.
13	TA_O	O	Tracking drive output.
14	SL_P	I	Sled amplifier non-inverted input pin.
15	SL_M	I	Sled amplifier inverted input pin.
16	SL_O	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input with external resistance connected.
18	Vcc	I	Power supply.
19	LOCK	I	“L” setting starts sled disorder-prevention circuit. (Not pull-up resistance)
20	CLK	I	Clock input for serial data transfer from CPU. (No pull-up resistance)
21	XLT	I	Latch input from CPU. (No pull-up resistance)
22	DATA	I	Serial data input from CPU. (No pull-up resistance)
23	XRST	I	Reset system at “L” setting. (No pull-up resistance)
24	C_OUT	O	Signal output for track number counting.
25	SENS1	O	FZC, DFCT1, TZC, BALH, TGH, FOH, or ATSC is output depending on the command from CPU.
26	SENS2	O	DFCT2, MIRR, BALL, TGL or FOL is output depending on the command from CPU.
27	FOK	O	Output terminal for focus OK comparator.
28	CC2	I	Input pin where the DEFECT bottom hold output is capacitance coupled.
29	CC1	O	DEFECT bottom-hold output terminal. Internally connected to interruption comparator input.
30	CB	I	Connection terminal for DEFECT bottom-hold capacitor.
31	CP	I	Connection terminal for MIRR hold-capacitor. Anti-reverse input terminal for MIRR comparator.

Pin No.	Pin Name	I/O	Description
32	RF_I	I	Input terminal by capacity combination of RF summing amplifier.
33	RF_O	O	Output terminal of RF summing amplifier. Checkpoint of Eye pattern.
34	RF_M	I	Anti-reverse input terminal for RF summing amplifier. The gain of RF amplifier is decided by the connection resistance between RF_M and RFO terminals.
35	RFTC	I	This is a pin where the selection time constant is externally connected to control the RF level.
36	LD	O	APC amplifier output terminal.
37	PD	I	APC amplifier input terminal.
38, 39	PD1, PD2	I	RFI-V amplifier inverted input pin. These pins are connected to the A+C and B+C pins of the optical pickup, receiving by currents input.
40	FEBIAS	I/O	Bias adjustment pin of the focus error amplifier.
41, 42	F, E	I	F and EIV amplifier inverted input pins. These pins are connected to the F and E of the optical pickup, receiving by current input.
43	EI	—	Gain adjustment pin of the I-V amplifier E. (When not in use of BAL automatic adjustment)
44	VEE	—	GND connection pin.
45	TEO	O	Output terminal for tacking-error amplifier. Output E-F signal.
46	LPFI	I	BAL adjustment comparator input pin. (Input through LPF from TEO)
47	TEI	I	Input terminal for tracking error.
48	ATSC	I	Window-comparator input terminal for detecting ATSC.
49	TZC	I	Input terminal for tracking-zero cross comparator.
50	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
51	VC	O	Output terminal for DC voltage reduced to half of VCC+VEE.
52	FZC	I	Input terminal for focus-zero cross comparator.

IC, CXD2540Q

Pin No.	Pin Name	I/O	Description
1	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.
2	FSW	O	Spindle motor output filter switching output.
3	MON	O	Spindle motor on/off control output.
4	MDP	O	Spindle motor servo control.
5	MDS	O	
6	LOCK	O	High, when sampled value of GFS at 460Hz is high. Low, when sampled value of GFS at 460Hz is low by 8 times successively.
7	NC		
8	VCOO	O	Analog EFM PLL oscillation circuit output.
9	VCOI	I	Analog EFM PLL oscillation circuit input. fLOCK=8.6436MHz.
10	TEST	I	TEST pin.
11	PDO	O	Analog EFM PLL charge pump output.
12	VSS		GND.
13	PWMI	I	Spindle motor external control input.
14	V16M	O	VCO2 oscillation output for the wide-band EFM PLL.
15	VCTL	I	VCO2 control voltage input for the wide-band EFM PLL.
16	VPCO	O	Wide-band EFM PLL charge pump output.
17	VCKI	I	VCO2 oscillation input for the wide-band EFM PLL.
18	FILO	O	Multiplier PLL (slave=digital PLL) filter output.
19	FILI	I	Multiplier PLL filter input.
20	PCO	O	Multiplier PLL charge pump output.
21	AVSS		Analog GND.
22	CLTV	I	Multiplier VCO1 control voltage input.
23	AVDD		Analog power supply (5V).
24	RF	I	EFM signal input.
25	BIAS	I	Constant current input of the asymmetry circuit.
26	ASYI	I	Asymmetry comparator voltage input.
27	ASYO	O	EFM full-swing output.
28	ASYE	I	Low: asymmetry circuit off; high: asymmetry circuit on.
29	NC		
30	PSSL	I	Audio data output mode switching input. Low: serial output; high: parallel output.
31	WDCK	O	D/A interface for 48-bit slot. Word clock f=2Fs.
32	LRCK	O	D/A interface for 48-bit slot. LR clock f=Fs.
33	VDD		Power supply (5V).
34	DA16	O	DA16 (MSB) output when PSSL=1. 48-bit slot serial data (two’s complement, MSB first) when PSSL=0.
35	DA15	O	DA15 output when PSSL=1. 48-bit slot bit clock when PSSL=0.
36	DA14	O	DA14 output when PSSL=1. 64-bit slot serial data (two’s complement, LSB first) when PSSL=0.
37	DA13	O	DA13 output when PSSL=1. 64-bit slot bit clock when PSSL=0.
38	DA12	O	DA12 output when PSSL=1. 64-bit slot LR clock when PSSL=0.

Pin No.	Pin Name	I/O	Description
39	DA11	O	DA11 output when PSSL=1. GTOP output when PSSL=0.
40	DA10	O	DA10 output when PSSL=1. XUGF output when PSSL=0.
41	DA09	O	DA09 output when PSSL=1. XPLCK output when PSSL=0.
42	DA08	O	DA08 output when PSSL=1. GFS output when PSSL=0.
43	DA07	O	DA07 output when PSSL=1. RFCK output when PSSL=0.
44	DA06	O	DA06 output when PSSL=1. C2PO output when PSSL=0.
45	DA05	O	DA05 output when PSSL=1. XRAOF output when PSSL=0.
46	DA04	O	DA04 output when PSSL=1. MNT3 output when PSSL=0.
47	DA03	O	DA03 output when PSSL=1. MNT2 output when PSSL=0.
48	DA02	O	DA02 output when PSSL=1. MNT1 output when PSSL=0.
49	DA01	O	DA01 output when PSSL=1. MNT0 output when PSSL=0.
50	APTR	O	Aperture compensation control output. This pin outputs a high signal when the right channel is used.
51	APTL	O	Aperture compensation control output. This pin outputs a high signal when the left channel is used.
52	VSS		GND.
53	XTAI	I	Crystal oscillation circuit input.
54	XTAO	O	Crystal oscillation circuit output.
55	XTSL	I	Crystal selector input.
56	FSTT	O	2/3 frequency divider output for Pins 53 and 54.
57	FSOF	O	1/4 frequency divider output for Pins 53 and 54.
58	C16M	O	16.9344MHz output. (V16M output in CLV-W and CAV-W modes)
59	MD2	I	Digital-out on/off control. High: on; low: off
60	DOUT	O	Digital-out output.
61	EMPH	O	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
62	WFCK	I	WFCK (write frame clock) output.
63	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
64	SBSO	O	Sub P to W serial output.
65	EXCK	I	SBSO readout clock input.
66	SQSO	O	Sub Q 80-bit and PCM peak, level metter and internal status outputs.
67	SQCK	I	SQSO readout clock input.
68	MUTE	I	High: mute; low: release
69	SENS	—	SENS output to CPU.
70	XRST	I	System reset. Reset when low.
71	DATA	O	Serial data input from CPU.
72	XLAT	O	Latch input from CPU. Serial data is latched at the falling edge.
73	VDD		Power supply (5V).
74	CLOK	O	Serial data transfer clock input from CPU.
75	SEIN	I	SENS input from SSP.
76	CNIN	I	Track jump count signal input.

Pin No.	Pin Name	I/O	Description
77	DATO	O	Serial data output to SSP.
78	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
79	CLKO	O	Serial data transfer clock output to SSP.
80	MIRR	I	Mirror signal input. Used when the number of tracks is 128 or more for the 2N-track jump and M track move of the auto sequencer.

Notes)

- The 64-bit slot is an LSB first, two's complement output, and the 48-bit slot is an MSB first, two's complement output.
- GTOP is used to monitor the frame sync protection status. (High: sync protection window open.)
- XUGF is the negative pulse for the frame sync obtained from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived from the crystal accuracy, and has a cycle of 136µ.
- C2PO represents the data error status.
- XRAOF is generated when the 32K RAM exceeds the ±28F jitter margin.

IC, CL680

Pin No.	Pin Name	I/O	Description
1	NC	—	No connection.
2	VSS	—	GND.
3	CD BCK	I	Bit clock input from CD DSP.
4	CD DATA	I	Data input from CD DSP.
5	CD LRCK	I	LRCK input from CD DSP.
6	CD C2PO	I	C2 pointer input from CD DSP.
7-9	NC	—	No connection.
10-15	MD0-MD5	I/O	DRAM/ROM interface. (DATA)
16	VSS	—	Ground.
17	MD6	I/O	DRAM/ROM interface. (DATA)
18	VDD3	—	Power supply 3.3V.
19	MD7	I/O	DRAM/ROM interface. (DATA)
20	VSS	—	Ground.
21	MD8	I/O	DRAM/ROM interface. (DATA)
22	VDD3	—	Power supply 3.3V.
23-29	MD9-MD15	I/O	DRAM/ROM interface. (DATA)
30-36	NC	—	No connection.
37	$\overline{\text{MCE}}$	—	ROM chip enable.
38	$\overline{\text{MWE}}$	O	DRAM write enable.
39	VSS	—	Ground.
40	$\overline{\text{CAS}}$	O	DRAM/ROM interface.
41	VDD3	—	Power supply 3.3V.
42	$\overline{\text{RASO}}$	O	DRAM/ROM interface.
43	$\overline{\text{RASI}}$	O	
44-46	MA10-MA8	O	DRAM/ROM interface. (Address)
47	VSS	—	Ground.
48	MA7	O	DRAM/ROM interface. (Address)
49	VDD3	—	Power supply 3.3V.
50-52	MA6-MA4	O	DRAM/ROM interface. (Address)
53	VSS	—	Ground.
54	MA3	O	DRAM/ROM interface. (Address)
55	VDD3	—	Power supply 3.3V.
56-58	MA2-MA0	O	DRAM/ROM interface. (Address)
59	PGIO7	I/O	Programmable I/O.
60	$\overline{\text{RESET}}$	I	Reset input.
61	VDD MAX IN	—	Power supply - VDDMAX. (5.0V)
62-64	NC	—	No connection.
65	AGND DAC	—	Analog ground.
66	A DAC	—	Analog power supply (DAC) : 3.3V.
67	COMP OUT	O	Composite out.
68	AGND DAC	—	Analog ground.

Pin No.	Pin Name	I/O	Description
69	Y OUT	O	Video signal “Y” OUT.
70	AVDD DAC	—	Analog power supply (DAC) 3.3V.
71	AGND DAC	—	Analog ground.
72	R REF	I	Reference resistor input.
73	V REF	I	Voltage reference input.
74	AVDD DAC	—	Analog power supply (DAC) : 3.3V.
75	C OUT	O	Video signal “C” out.
76	AGND DAC	—	Analog ground.
77-79	CLK SEL0-2	I	Clock selection input.
80	VSS	—	Ground.
81	CLK SEL3	I	Clock selection input.
82	VDD3	—	Power supply 3.3V.
83, 84	CLK SEL4, 5	I	Clock selection input.
85	AGND PLL	—	Analog ground.
86	DA XCK	I	DA XCK (16.933MHz) input.
87	AVDD PLL	—	Analog power supply 3.3V.
88	DA EMP	O	DAC-emphasis output.
89, 90	PGIO5, O6	I/O	Programmable I/O.
91	PGIO0	I/O	
92	PGIO8	I/O	
93	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$	O	$\overline{\text{VSYNC}}$/$\overline{\text{CSYNC}}$ output.
94	AVDD PLL	—	Analog power supply (PLL) 3.3V.
95	VID_DAC_CK	O	Video DAC clock.
96	PROC_CK	O	Processor clock.
97	AUD_XCK	O	Audio XCK.
98	AGND PLL	—	Analog ground.
99	VSS	—	Ground.
100	NC	—	No connection.
101	$\overline{\text{HSYNC}}$	O	$\overline{\text{HSYNC}}$ output.
102	VDD3	—	Power supply 3.3V.
103	VCK OUT	O	VCK out.
104	VSS	—	Ground.
105	GCK	I	Global clock signal input. (42.3MHz)
106	VCK	I	Video clock signal input. (27.0MHz)
107	GCK OUT	O	Global clock signal output. (27.0MHz)
108	DA LRCK	O	DAC-LRCK output.
109	VDD MAX OUT	—	Power supply (VDD MAX) : 5.0V.
110	DA DATA	O	DAC-PCM data output.
111	DA BCK	O	DAC-BIT clock output.
112	HD OUT	O	Micon interface. (Data out)
113	HRDY	O	Micon interface. (Host ready)

Pin No.	Pin Name	I/O	Description
114	$\overline{\text{HINT}}$	O	Micon interface. (Host interrupt)
115	CDG SCK	I	CD-G serial clock input.
116	VSS	—	Ground.
117	HCK	I	Micon interface. (Host clock)
118	VDD3	—	Power supply 3.3V.
119	HD IN	I	Micon interface. (Host data in)
120	VDD3	—	Power supply 3.3V.
121	HSEL	I	Micon interface. (Host select in)
122	CDG DATA	I	CD-G data input.
123	CDG VFSY	I	CD-G VFSY input.
124	CDG SOSI	I	CD-G SOSI input.
125	DSP-XCK	O	DSP-XCK output.
126-128	NC	—	No connection.

IC, LC74781M

Pin No.	Pin Name	I/O	Description
1	VSS1	—	GND connection terminal. (Digital ground terminal).
2	Xtal IN	I	External X’tal and capacitor for internal sync generator, or the external clock are connected to this terminal. (2fsc or 4fsc).
3	Xtal OUT	O	
4	CTRL1	I	Either the external clock input mode or the X’tal generator mode is selected by this selector terminal. L: X’tal generator mode, H: External clock input.
5	BLANK	O	Blank signal (character and the green ORed signal) is output from this terminal. (MODE 0: composite sync signal is output at H.) When reset ($\overline{\text{RST}}$ terminal = L), the X’tal clock signal is output. (It is not output when reset by the reset command).
6	OSC IN	I	External coil and capacitor for the character output dot clock generator are connected to this terminal.
7	OSC OUT	O	
8	CHARA	O	The character signal is output from this terminal. (MOD 0: when H, the external sync signal identification signal is output from this terminal. This output signal tells whether the external sync signal is present or not. When external sync signal is present, H is output.) When reset ($\overline{\text{RST}}$ terminal = L), the dot clock signal (LC oscillator) is output. (It is not output when reset by the reset command).
9	$\overline{\text{CS}}$	I	Enable signal for the serial data input is input to this terminal. The serial data input is enabled at L. Pull-up resistor is built-in. (Hysteresis input).
10	SCLK	I	Clock of the serial data input is input to this terminal. Pull-up resistor is built-in. (Hysteresis input).
11	SIN	I	Serial data input terminal. Pull-up resistor is built-in. (Hysteresis input).
12	VDD2	—	Power supply for the composite video signal level adjustment. (Analog power supply).
13	CV OUT	O	Composite video signal output terminal.
14	NC	—	Connected to GND or not connected.
15	CV IN	I	Composite video signal input terminal.
16	VDD1	—	Power supply (+5V digital power supply).
17	SYN IN	I	Video signal for the internal sync separator circuit is input to this terminal. (When the internal sync separator circuit is not used, the horizontal sync signal or composite sync signal is input to this terminal).
18	SEP C	—	Internal sync separator circuit bias voltage monitoring terminal.
19	SEP OUT	O	The composite sync output signal of the internal sync separator circuit is output from this terminal. (H: MOD 1. H: during internal sync mode. L: during external sync mode.) (When internal sync separator circuit is not used, the SYN IN input signal is output from this terminal).
20	SEP IN	I	The output signal of the SEP OUT terminal is integrated so that the vertical sync signal is input to this terminal. An integrator circuit must be connected between the SEP OUT terminal and this terminal. When this terminal is not used, it must be connected to VDD1.
21	CTRL2	I	When selecting any of the NTSC or PAL or PAL-M or PAL-N system, the pin setting has priority. When L, the NTSC system is selected after resetting. Selection of either NTSC or PAL or PAL-M or PAL-N system by the command becomes effective. H: PAL-M system.

Pin No.	Pin Name	I/O	Description
22	CTRL3	I	Controls whether or not to input the $\overline{\text{VSYNC}}$ signal to the SEPIN input. L: to input the $\overline{\text{VSYNC}}$ signal. H: not to input the $\overline{\text{VSYNC}}$ signal.
23	$\overline{\text{RST}}$	I	System reset input terminal. Pull-up resistor is built-in. (Hysteresis input).
24	VDD1	—	Power supply. (+5V digital power supply).

IC, μPD78016FGC

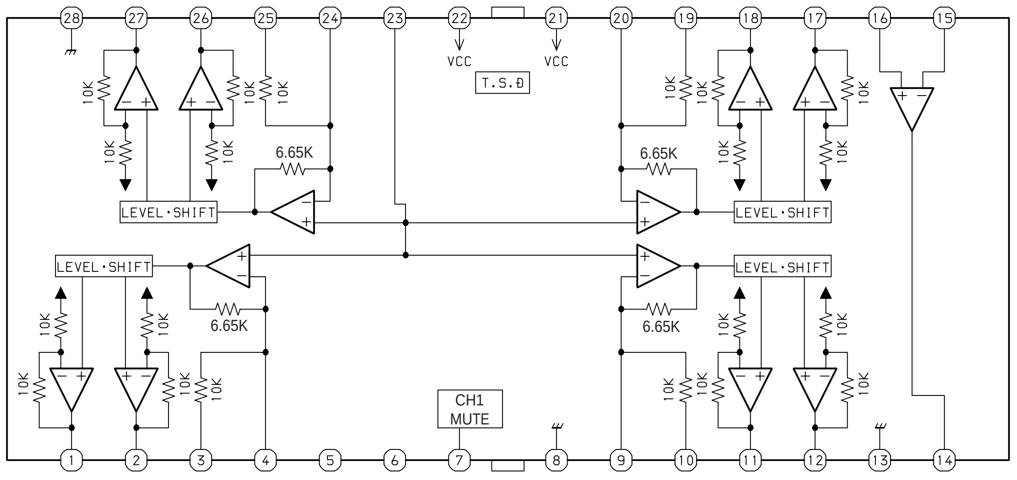
Pin No.	Pin Name	I/O	Description
1	RBPLS	O	RADIAL BALANCE PLUS.
2	AMUTE	O	AUDIO ANALOG MUTE (H=MUTE ON).
3	GFS	I	GFS.
4	XVCDMD	I	AUDIO/VIDEO CD MODE (L=VCD=SPINDLE GAIN UP).
5	MD2	O	DOUT MUTE CONT.
6	EMPH	I	EMPHASIS.
7	SQSO	I	SQDATA FROM CD.
8	SQCK	O	SQCLK TO CD.
9	VSS	—	GND.
10	SWNT	I	SW TV OUT MODE (L=NTSC).
11	SWAUTO	I	SW TV OUT MODE (L=NTSC/PAL AUTO).
12	SWPAL	I	SW TV OUT MODE (L=PAL).
13	EMERG	I	POWER EMERGENCY STOP (L*3sec=STOP).
14	NC	—	Nou used.
15	LPCSEL	I	“LPC ON/OFF (H=ON, NORMAL)”.
16	NC	—	Nou used.
17	LOCK	O	GFS (FRAME SYNC) LOCK (NO USE=H).
18	DMUTE	O	DIGITAL DATA OUT MUTE.
19	SENS	I	DSP SENS1 FROM CD.
20	XCDRST	O	CD RESET.
21	DATA	O	DATA TO CD.
22	XLAT	O	XLT TO CD.
23	CLOK	O	CLK TO CD.
24	VSS	—	GND.
25	FOK	I	FOCUS OK.
26	SENS2	I	SSP SENS2 FROM CD.
27	XBUSY	I/O	READY/BUSY I/O TO HOST OD.
28	NC	—	Nou used.
29	NC	—	
30	NC	—	
31	TST0	I/O	CHECK LAND.
32	TST1	I/O	
33	TST2	I/O	
34	TST3	I/O	
35	RESET	I	RESET.
36	HRDY	I	HRDY FROM CL680.
37	XHINT	I	HINT FROM CL680.
38	NC	—	Nou used.
39	SCOR	I	SCOR FROM CD.
40	VDD	—	5.0VDD.
41	XO	O	8.0MHz CERALOCK.

Pin No.	Pin Name	I/O	Description
42	XI	I	8.0MHz CERALOCK.
43	VSS	—	GND.
44	XT2	—	Nou used.
45	XT1	I	5.0VDD.
46	AVSS	—	GND.
47	XMPGRST	O	MPEG BLOCK IC RESET.
48	HSEL	O	ADDRESS/DATA SEL TO CL680.
49	INLSW	I	INSIDE LIMIT SW.
50	NC	—	Nou used.
51	OSDXCS	O	OSD CHIP SELECT.
52	ABSEL	I	CXA1992A/B SELECT (L=CXA1992A).
53	CLVSEL	I	CLV MODE SELECT (H=CLV-N).
54	AADSEL	I	AUTO ADJUST SELECT (H=AUTO ON).
55	AVDD	—	5.0VDD.
56	AVREF	—	
57	HDOUT	I	HD-OUT FROM CL680.
58	HDIN	O	HD-IN TO CL680.
59	HCK	O	HCK TO CL680.
60	OSDDATA	O	OSD DATA.
61	OSDCLK	O	OSD CLOCK.
62	COMMAND	I	COMMAND FROM HOST.
63	STATUS	O	STATUS TO HOST.
64	SCK	I	SCK FROM HOST.

IC, SM5878M

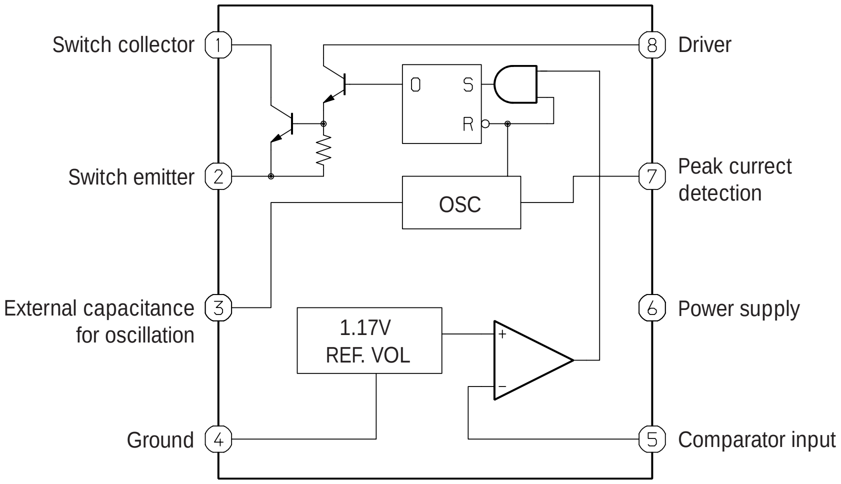
Pin No.	Pin Name	I/O	Description
1	MUTE	I	MODE = H: Soft mute ON/OFF terminal. (Mute at H). MODE = L: Attenuator level DOWN/UP terminal. (DOWN at H).
2	DEEM	I	De-emphasis ON/OFF terminal. (De-emphasis ON at H).
3	CKO	O	Oscillator clock output. (16.9344 MHz).
4	DVSS	—	Digital VSS terminal.
5	BCKI	I	Bit clock input terminal.
6	DI	I	Serial data input terminal.
7	DVDD	—	Digital VDD terminal.
8	LRCI	I	Sample rate clock (fs) input terminal. (H = L ch/L = R ch).
9	TSTN	I	Test input. (“H” or open during normal operation)
10	TO1	O	Test output 1. (Normally low level output).
11	AVDDL	—	Analog VDD terminal. (For L ch).
12	LO	O	Left channel analog output terminal.
13	AVSS	—	Analog VSS terminal.
14	RO	O	Right channel analog output terminal.
15	AVDDR	—	Analog VDD terminal. (For R ch).
16	MUTEO	O	Infinity zero detection output.
17	XVDD	—	X’tal system VDD terminal.
18	XTI	I	X’tal oscillator terminal. (Or external clock input terminal of 16.9344 MHz).
19	XTO	O	X’tal oscillator terminal.
20	XVSS	—	X’tal system VSS terminal.
21	DS	I	Double-speed/normal playback selection. (Double-speed at H).
22	RSTN	I	Reset terminal. (Reset at L).
23	MODE	I	Soft mute/Attenuator mode selection. (Soft mute at H).
24	ATCK	I	Attenuator level setup clock (Ignored when MODE = H).

IC BLOCK DIAGRAM
IC, BA5915FP

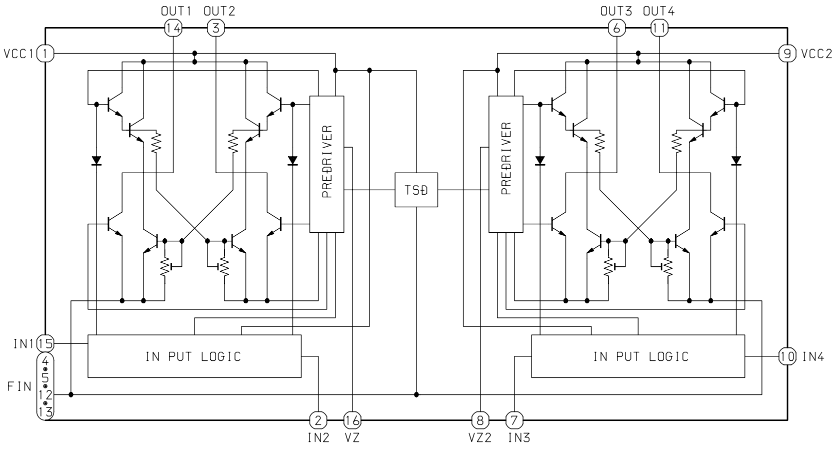

28
27
26
25
24
23
22
21
20
19
18
17
16
15
VCC
VCC
T.S.D
10K
6.65K
LEVEL·SHIFT
CH1
MUTE
1
2
3
4
5
6
7
8
9
10
11
12
13
14

T.S.D: Thermal shut-down
Resistors are in units of Ω.

IC, M5291FP


Switch collector
1
Switch emitter
2
External capacitance
for oscillation
3
Ground
4
8
Driver
7
Peak currect
detection
6
Power supply
5
Comparator input
D
S
R
OSC
1.17V
REF. VOL
+
–

IC, LB1644


OUT1
OUT2
14
3
OUT3
OUT4
6
11
VCC1
1
9
VCC2
PREDRIVER
TSD
PREDRIVER
IN1
15
FIN
4
5
12
13
IN PUT LOGIC
IN PUT LOGIC
10
IN4
2
16
IN2
VZ
8
7
VZ2
IN3

TRUH TABLE

IN1	IN2	OUT1	OUT2	IN3	IN4	OUT3	OUT4
0	0	L	L	0	0	L	L
1	0	H	L	1	0	H	L
0	1	L	H	0	1	L	H
1	1	L	L	1	1	L	L

INPUT			OUTPUT				MODE	
IN1	IN2.3	IN4	OUT1	OUT2	OUT3	OUT4	M1	M2
0	0	0	L	L	L	L	BRAKE	BRAKE
1	0	0	H	L	L	L	FF/REW	BRAKE
0	1	1	L	H	L	L	REW/FF	BRAKE
1	1	0	L	L	H	L	BRAKE	FF/REW
0	0	1	L	L	L	H	BRAKE	REW/FF
1	1	1	L	L	L	L	BRAKE	BRAKE

TEST MODE

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

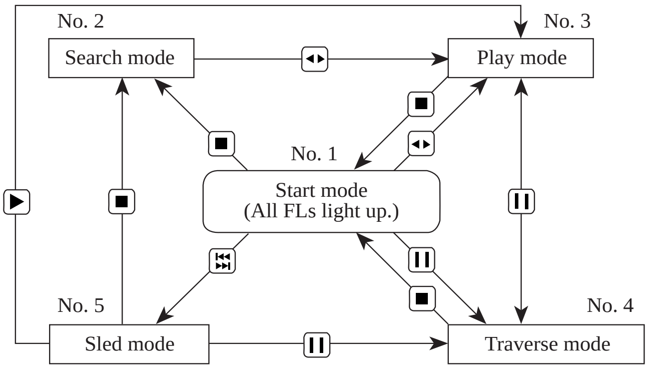
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Press the function button. (except CD function button)
   - Press the power switch button.
   - Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	TEST□□ □□ □□ Flashes repeatdly	• Test mode is activated. • CD block power is ON.	• Test mode
Search mode No.2	■ key		• Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check FOK/FZC
Traverse mode No.4	❚❚ key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮or⏭keys when the machine is in the ❚❚ status is active. If they are pressed, playback will not be possible after the ❚❚ status has been canceled. If the ⏮or ⏭keys are pressed in the ❚❚status, press the ■key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮or⏭keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



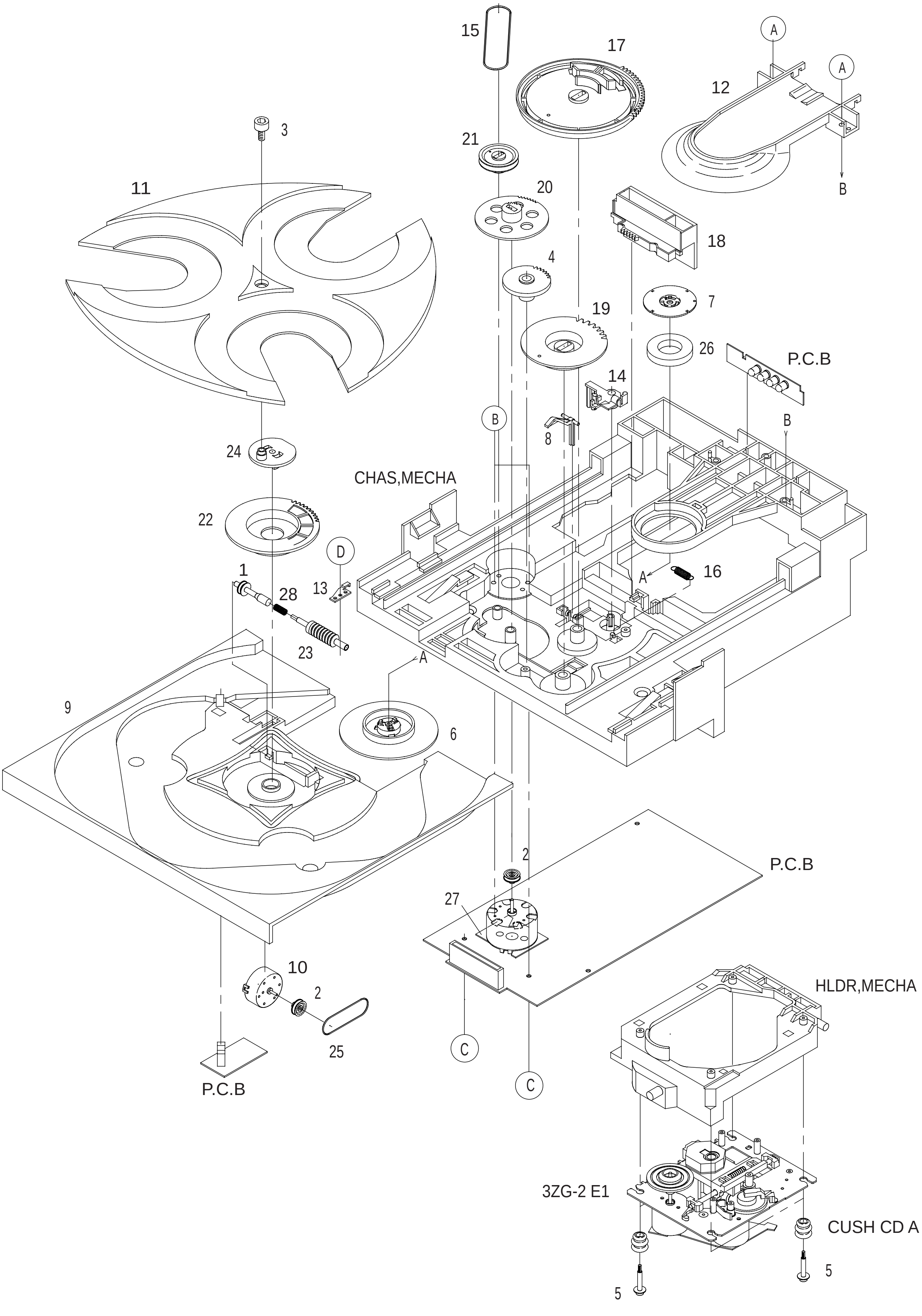
If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

5. How to check the Automatic Adjustment Values
   The automatic adjustment values can be checked by pressing the square (■) button.
   FL display (displayed in hexadecimal values)

** ** **
Tracking balance (00-0F)
Tracking gain (00-0C)
Focus bias (10-2F)

Note) The reference value is "20 08 08".

MECHANICAL EXPLODED VIEW 1/1

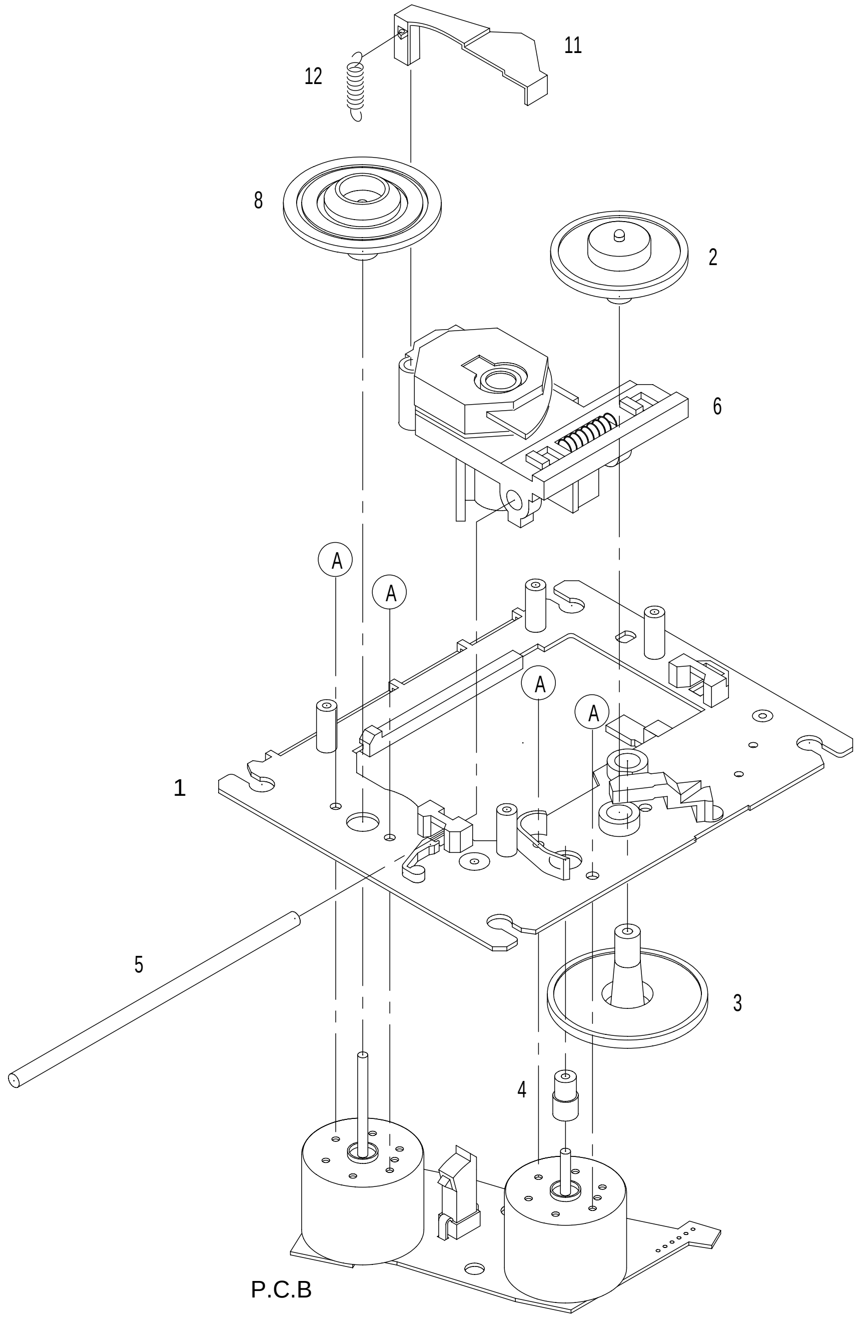

15
17
A
A
12
3
21
20
B
11
18
4
7
19
26
P.C.B
14
B
B
8
24
CHAS,MECHA
22
D
A
16
1
28
13
23
A
9
6
2
P.C.B
27
10
2
HLDR,MECHA
25
C
C
P.C.B
3ZG-2 E1
CUSH CD A
5
5

MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-239-210		PULLY,WORM N
2	84-ZG1-267-010		PULLEY,LOAD MO 8
3	81-ZG1-239-010		S-SCREW,TT
4	81-ZG1-291-110		GEAR,TRAY RELAY NO3
5	81-ZG1-271-010		S-SCREW MECH REAR
6	81-ZG1-277-310		HLDR,MAGNET N
7	81-ZG1-255-110		PLATE,MAGNET MK2
8	83-ZG3-213-010		LVR,SW
9	84-ZG1-003-310		TRAY,NO2-B
10	87-045-364-010		MOTOR(BCH3B14)
11	84-ZG1-005-210		TURNTABLE,NO1(*)
12	84-ZG1-011-010		REFLECTOR,CD
13	84-ZG1-259-010		SPR-P,WORM
14	84-ZG1-208-210		LEVER,CAM
15	84-ZG1-209-010		BELT,SQ1.8-117.7
16	84-ZG1-211-010		SPR-E CAM S
17	84-ZG1-215-410		GEAR,MAIN CAM BLU
18	84-ZG1-216-310		SLIDE,MECHA CAM YEL
19	84-ZG1-205-110		GEAR,TRAY
20	84-ZG1-206-110		GEAR,RELAY
21	84-ZG1-207-010		PULLEY,RELAY
22	84-ZG1-221-010		GEAR,MAIN TT
23	84-ZG1-238-010		GEAR,WORM N
24	84-ZG1-224-010		LEVER,TT
25	84-ZG1-225-010		BELT,SQ1.0-63.3
26	83-ZG3-602-010		RING,MAG
27	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
28	84-ZG1-248-010		SPR-C,WORM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-251-070-410		U+2.6-3
C	87-342-036-210		UT2+2-8
D	87-067-981-010		BVT2+3-6 BLK

CD MECHANISM EXPLODED VIEW 1/1 (3ZG-2 E1)



CD MECHANISM PARTS LIST 1/1 (3ZG-2 E1)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-110		CHAS ASSY,SHT
2	83-ZG2-235-010		GEAR,A3
3	83-ZG2-205-210		GEAR,B
4	83-ZG2-236-010		GEAR MOTOR 3
5	83-ZG2-240-010		SHAFT,SLIDE 3
6	87-A90-836-010		PICKUP,KSS-213F
8	83-ZG2-233-010		TURN TABLE,A5
11	83-ZG2-245-110		LEVER,SHUTTER
12	83-ZG2-250-010		SPR-E,SHT 2
A	87-261-032-210		SCREW V+2-3

USE MODEL LIST

- CX-NAK572
- CX-NK270
- CX-NK290
- CX-NK370
- CX-NK570
- CX-NK765
- CX-NK770
- CX-NK970
- DX-SNKH100

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G—　—	
G—　—	
G—　—	

アイワ株式会社
AIWA CO.,LTD.

912162

Tokyo Japan

〒110　東京都台東区池之端1-2-11　☎03（3827）3111（代表）

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